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ABSTRACT

The number of certificate and degree programs offered and awarded at public and private nonproprietary, postsecondary institutions in Alaska is listed statewide and by institution. Programs that may be underproductive based on the number of formal awards over a four-year period are also identified. A total of 252 unduplicated certificate and degree programs are offered at 18 institutions. The majority (70) are associate degree programs, followed by 67 bachelor's degree programs, 57 certificate programs, 51 master's degree programs, and 7 doctorate degree programs. During 1978-1979 to 1981-1982, Alaska postsecondary institutions awarded 1,425 certificates and 4,462 degrees. The most popular award is the associate degree, followed closely by the bachelor's degree. Since 1978-1979, certificate awards have slightly declined, while associate degree awards have increased almost 50 percent. At the certificate and associate level, oil/petroleum technology, secretarial technology, and business administration are most popular. At the bachelor's and master's level, business administration and elementary education are the most popular. Information on specific colleges is included, along with recommendations concerning underproductive programs. Definitions of formal awards and program areas are appended. (SW)

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ED239539

POSTSECONDARY CERTIFICATES AND DEGREES IN THE STATE OF ALASKA

Prepared by:

The Alaska Commission on Postsecondary Education

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
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EXECUTIVE SUMMARY

The primary purpose of this report is to identify certificate and degree programs offered at public and private non-proprietary postsecondary institutions in Alaska. The number of certificates and degrees awarded in each program area is listed statewide and by institution. Those programs which may be underproductive based on the number of formal awards over a four-year period are also identified.

Two hundred fifty-two unduplicated certificate and degree programs are offered at 18 institutions throughout the state. The majority are associate degree programs, with 70 offered, followed by 67 bachelor's degree programs, 57 certificates, and 51 master's degree programs. Seven doctorate degree programs are available, and all are offered at the University of Alaska, Fairbanks.

Over the past four years, from 1978-79 to 1981-82, Alaska postsecondary institutions awarded 1,425 certificates and 4,462 degrees for a total of 5,887 formal awards. The most popular award is the associate degree, followed closely by the bachelor's degree.

Since 1978-79, the awarding of the certificate has shown a slight decline. Associate degree awards, on the other hand, have increased by almost 50%, with two program areas, business and commerce and data processing, showing increased popularity. While the number of bachelor's degrees awarded has also increased since 1978-79, the popularity of traditional liberal arts subjects has remained stable.

Over the same four-year period, the number of master's degrees awarded has increased, particularly in the program areas of agricultural and natural resources, business and management, letters, physical sciences, and psychology. Because of the limited number of doctoral program offerings, no trends in doctorate degrees awarded are identified.

What programs show the highest number of degrees awarded over this four-year period? At the certificate and associate level, oil/petroleum technology, secretarial technology, and business administration are most popular. At the bachelor's and master's level, business administration and elementary education are, by far, the most popular. From the associate degree to the master's degree, business administration is consistently found at the top of the list.

The number and types of certificates and degrees awarded over a four-year period at each institution help to define institutional mission. A four-year "picture" of certificate and degree productivity provides a good operational definition of what an institution is doing. Both the University of Alaska, Anchorage and University of Alaska, Fairbanks provide a wide variety of bachelor's and master's degree programs. The University of Alaska, Anchorage, however, has four program areas which represent over 50% of the degree productivity. These areas are business and management, health professions, social sciences, and education.

The University of Alaska, Juneau, is substantially smaller in size than the other two university centers, but offers programs from the certificate to the master's degree. At the certificate level, the majority of awards are in the mechanical and engineering technologies. For the associate degree, approximately 50% of awards are in the arts and

sciences, and a significant portion are in business and commerce. At the bachelor's and master's degree levels, education is the most popular program area.

At almost every community college in Alaska, the program areas of mechanical and engineering technologies and business and commerce represent a significant portion of certificates and degrees awarded. At Kuskokwim Community College and Northwest Community College, health services and paramedic technologies are very popular. While the Alaska Vocational-Technical Center in Seward offers a variety of certificate programs, mechanical and engineering technologies are, again, the most popular.

Consistent with their mission, two private institutions in Alaska offer a broad range of programs. Alaska Pacific University emphasizes liberal arts at the bachelor's level and master's programs in education. Sheldon Jackson College offers a number of certificate and associate degree programs in natural science technologies, as well as bachelor's level programs in education. The third private institution included in this study, Alaska Bible College, concentrates solely on providing associate and bachelor's degree programs in Bible and theology.

Seventy-nine instructional programs that may be underproductive are identified at institutions statewide using the following criteria:

Certificate or Degree	Program was established by:	Number of Graduates over a 4-year period was less than:
Certificate	1978	4
Associate	1977	4
Bachelor's	1975	8
Master's	1977	4
Doctorate	1975	4

The following is a listing by institution of the number of underproductive programs identified.

Institution	No. of Programs Offered	No. of Underproductive Programs	Underproductive Programs - % of Total
University of Alaska, Anchorage	47	9	19%
University of Alaska, Fairbanks	110	35	31%
University of Alaska, Juneau	32	10	31%
Anchorage Community College	34	0	
Kenai Pen. Community College	10	1	10%
Ketchikan Community College	6	3	50%
Kodiak Community College	9	6	67%
Kuskokwim Community College	6	2	33%
Mat-Su Community College	11	1	9%
Northwest Community College	11	3	27%
Prince Wm. Sound Community College	4	0	
Sitka Community College	8	2	25%
Tanana Valley Community College	19	6	32%
Rural Education	1	0	
Alaska Vocational-Tech. Center	10	0	
Kotzebue Technical Center	22	0	
Alaska Pacific University	7	0	
Sheldon Jackson College	7	0	
Alaska Bible College	2	1	50%
TOTAL	356	79	22%

Of those institutions that have been operating long enough to produce graduates over the four-year period included in this study, only Anchorage Community College, Alaska Vocational-Technical Center, and Sheldon Jackon College had no programs that could be considered underproductive.

Recommendations with regard to programs which may be underproductive are as follows:

I. The University of Alaska should establish a time-line for the review of those programs identified as possibly underproductive.

II. The University of Alaska, through the appropriate offices, should continue to conduct a thorough review of each identified program with special cognizance of the following questions:

1) Why should this program be offered by this institution?

2) What state needs will be met?

3) What is the minimum cost to operate this program with a basic core of faculty?

4) What standards of quality have been determined for this program?

5) What evidence can be presented to ensure that these standards have been achieved?

III. The University of Alaska should report the results of their reviews to the Governor, the Legislature, and the Commission on Postsecondary Education.

IV. Although Alaska Bible College carries out a special mission to a select clientele, a careful review of the bachelor's degree offering in Theological Professions may serve to increase the number of graduates.

INTRODUCTION

A primary function of the Commission on Postsecondary Education is to coordinate "the development of comprehensive plans for the orderly, systematic growth of public and private postsecondary education, including community colleges and occupational education, in the state and submit recommendations on the need for, and location of, new facilities and programs".[1] This study is an essential step in successfully fulfilling that function. The major purpose of this report is not only to identify the certificate and degree program offerings from the various institutions, but also to show how many certificates and degrees are awarded by program. Thus, this report is essentially descriptive in nature and provides a convenient resource for those interested in higher education in Alaska.

In this study, a program is defined as any prescribed course of study in an institution of postsecondary education which constitutes an area of specialization leading to a recognized degree or certificate. The definitions of formal awards are found in Appendix I.

PURPOSES

The following are the specific purposes for this report.

A. Identify the number and types of programs offered by each institution.

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[1] Alaska Statutes, Section 14.42.030

B. List both the number and types of degrees and certificates awarded statewide and by each institution.

C. Identify degree and certificate programs that may be underproductive.

ORGANIZATION OF THE REPORT

This report is organized into five major sections: 1) degrees and certificates offered,* 2) degrees and certificates awarded, 3) institutional mission as a function of degrees awarded, 4) a detailed listing of each degree awarded over a four-year period with the identification of possibly underproductive programs, and 5) Commission recommendations.

*Professional certificates and certificates beyond the bachelor's degree are not included in this study because of their special nature and their relationship to a limited clientele.

INSTITUTIONS INCLUDED IN THE REPORT

All public and private non-proprietary postsecondary institutions in the State of Alaska are included in this report. Table 1 provides a listing of each institution included in the report showing its location and its affiliation, either public or private.

TABLE 1

Institutions Included in this Study*

Institution	Public or Private		Location	Abbr.
University of Alaska - Anchorage	Public	4-Year	Anchorage	UAA
University of Alaska - Fairbanks	Public	4-Year	Fairbanks	UAF
University of Alaska - Juneau	Public	4-Year	Juneau	UAJ
Anchorage Community College	Public	2-Year	Anchorage	ACC
Kenai Peninsula Community College	Public	2-Year	Kenai	KPCC
Ketchikan Community College	Public	2-Year	Ketchikan	KCC
Kodiak Community College	Public	2-Year	Kodiak	KOCC
Kuskokwim Community College	Public	2-Year	Bethel	KUCC
Mat-Su Community College	Public	2-Year	Palmer	MSCC
Northwest Community College	Public	2-Year	Nome	NWCC
Prince William Sound Community College	Public	2-Year	Valdez	PWSCC
Sitka Community College	Public	2-Year	Sitka	SCC
Tanana Valley Community College	Public	2-Year	Fairbanks	TVCC
Rural Education	Public	2-Year	Statewide	RE
Alaska Vocational-Technical Center at Seward	Public	Vo-Tech	Seward	AVT
Kotzebue Technical Center	Public	Vo-Tech	Kotzebue	KTC
Alaska Pacific University	Private	4-Year	Anchorage	APU
Sheldon Jackson College	Private	2-Year	Sitka	SJC
Alaska Bible College	Private	4-Year	Glennallen	ABC

*Chukchi Community College in Kotzebue is not included because of its very recent re-opening.

SECTION I

CERTIFICATES AND DEGREES OFFERED

Alaska's postsecondary institutions offer 252 unduplicated certificate and degree programs. Table 2 shows the number of programs leading to each type of formal award offered within the state.

TABLE 2
Number of Programs Leading to a Formal Award - Statewide

Formal Award	Number
Certificates	57
Associate	70
Bachelor's	67
Master's	51
Doctorate	7
TOTAL	252

Several of the instructional programs leading to a formal award are duplicated in two or more institutions throughout the state, and if all offerings are considered, the number of total programs equals 356.

Table 3 provides a detailed listing of each program offering in the state, the award offered, and the institutions which offer it. The listing is separated into convenient categories of similar program areas. This arrangement will be used throughout the report. The program areas were established by the National Center for Educational Statistics (NCES) for the Higher Education General Information Survey (HEGIS). A brief description of each program area is given in Appendix II. For bachelor's degrees and above, the categories are as follows:

Program Taxonomy	Program Area
0100	Agriculture and Natural Resources
0200	Architecture and Environmental Design
0300	Area Studies

Program Taxonomy	Program Area
0400	Biological Sciences
0500	Business and Management
0600	Communications
0700	Computer and Information Sciences
0800	Education
0900	Engineering
1000	Fine and Applied Arts
1100	Foreign Languages
1200	Health Professions
1500	Letters
1700	Mathematics
1900	Physical Sciences
2000	Psychology
2100	Public Affairs and Services
2200	Social Sciences
2300	Theology
4900	Interdisciplinary Studies

For certificates and associate degrees, the following program areas are used:

5000	Business and Commerce Technologies
5100	Data Processing Technologies
5200	Health Services and Paramedic Technologies
5300	Mechanical and Engineering Technologies
5400	Natural Science Technologies
5500	Public Service Related Technologies
5600	Arts and Sciences

The particular programs within each of these categories are found in Table 3. The following abbreviations identify each formal award:

Abbreviation	Formal Award
C	Certificate
A	Associate
B	Bachelor's
M	Master's
D	Doctorate

TABLE 3

Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ	ACC	KPCC	KCC	KOCC	KUCC	MSCC	PWCC	PWSCC	SCC	TVCC	RE	AVT	KTC	APU	SJC	ABC
0100	**Agriculture and Natural Resources**																			
0107	Fisheries			B,M																
0107	Fisheries Science		B																	
0107	Wildlife Management		B,M,D																	
0115	Natural Resources Management		A,M																	
0199	Fisheries Biology		M																	
0200	**Architecture and Environmental Design**																			
0206	Planning	M																		
0300	**Area Studies**																			
0307	Russian Studies		B																	
0399	Northern Studies		B																	
0400	**Biological Sciences**																			
0401	Biological Science	A,M	B,M																	
0401	Biology		M	B																
0402	Botany		M																	
0407	Zoology		M																	
0418	Marine Biology		M																	
0500	**Business and Management**																			
0501	Business	B																		
0502	Accounting		B																	
0506	Business Administration	A,M	B,M	B,M																
0511	Real Estate	M																		
0599	Management																	M		
0600	**Communications**																			
0602	Journalism		B																	
0699	Journalism and Public Communications	B																		
0700	**Computer and Information Sciences**																			
0701	Computer Science	B	B																	
0800	**Education**																			
0801	Education	M	B,M	M														M		
0802	Elementary Education	B	B,M	B															B	
0803	Secondary Education	B	B,M	B																
0823	Early Childhood Education		B																	
0826	College Student Personnel Administration		M																	
0826	Guidance and Counseling		M																	
0827	Public School Administration		M																	
0832	Music Education		B																	
0832	Music Education Elementary	B	B																	
0832	Music Education Secondary	B	B																	
0835	Physical Education	B	B																	
0839	Vocational Education		M	M																
0899	Cross-Cultural Education		B,M																	
0900	**Engineering**																			
0907	Petroleum Engineering		B,M																	
0908	Civil Engineering	B,M	B,M																	
0909	Electrical Engineering		B,M																	
0910	Mechanical Engineering		B,M																	

TABLE 3 (continued)

Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ	ACC	XP CC	KCC	KO CC	KU CC	MS CC	NW CC	PWS CC	SCC	TV CC	RE	AVT	KTC	APU	SJC	ABC
0911	Geological Engineering		B,M																	
0913	Engineering Management	M	M	M																
0913	Science Management	M	M	M																
0918	Mineral Preparation Engineering		M																	
0918	Mining Engineering		B,M																	
0922	Environmental Quality Engineering	M	M																	
0922	Environmental Quality Science	M	M																	
0999	Arctic Engineering	M	M																	
1000	**Fine and Applied Arts**																			
1002	Art	B	B																	
1004	Music Performance	B	B																	
1005	Music	B	B,M	B																
1007	Theater	B	B																	
1100	**Foreign Languages**																			
1101	Foreign Languages		B																	
1199	Inupiaq Eskimo		B																	
1199	Yupik Eskimo		B																	
1200	**Health Professions**																			
1203	Nursing Science	B,M																		
1223	Medical Terminology	B																		
1500	**Letters**																			
1501	English	B,M	B,M																	
1505	Applied Linguistics		B																	
1505	Linguistics		B																	
1506	Speech Communications		B																	
1507	Creative Writing	M																		
1509	Philosophy		B																	
1700	**Mathematics**																			
1701	Mathematics	B	B,M																	
1900	**Physical Sciences**																			
1902	Applied Physics		B																	
1902	Physics		B,M,D																	
1905	Chemistry	B	B,M																	
1913	Atmospheric Science		M,D																	
1914	Geology		B																	
1917	Earth Science		B																	
1919	Oceanography		M																	
1999	Geology and Geophysics		M,D																	
1999	Space Physics		M,D																	
2000	**Psychology**																			
2001	Psychology	B	B																	
2004	Counseling Psychology	M																		
2100	**Public Affairs and Services**																			
2102	Public Administration	M		M																
2104	Social Work	B																		
2105	Justice	B	B																	

TABLE 3 (continued)

Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ	ACC	XP CC	KCC	KO CC	KU CC	MS CC	NW CC	PWS CC	SCC	TV CC	HE	AVT	KTC	APU	SJC	ABC
2200	**Social Sciences**																			
2202	Anthropology	B	B,M																	
2204	Economics	B	B																	
2205	History	B	B																	
2206	Geography		B																	
2207	Government			B																
2207	Political Science	B	B																	
2208	Sociology	B	B																	
2212	Alaska Native Studies		B																	
2299	Geography and Regional Development		B																	
2299	Resource Economics		M																	
2300	**Theological Professions**																			
2301	Theological Professions, General																			B
4900	**Interdisciplinary Studies**																			
4901	Liberal Arts			B														B,M		
4902	General Science		B,M																	
4902	Natural Science	B																		
4903	Humanities		B																	
4999	Interdisciplinary Studies	B,M	B,M,D	B																
5000	**Business and Commerce Technologies**																			
5001	Business							A			C,A						C			
5001	Business Administration				A			A		A			A							
5002	Accounting				A					A										
5002	Accounting Technologies															C				
5002	Accounting Clerk			C									C				C			
5004	Business Supervision													A						
5005	Clerk Typist						C						C							
5005	Office Administration			A																
5005	Office Occupations			C	C,A	C,A		C,A				C,A	A	C,A				C		
5005	Secretarial Studies									A										
5005	Secretarial Technologies															C	C			
5005	Stenographer						C													
5099	Employability																C			
5099	Travel Industry Management																	C		
5099	Women in Management																	C		
5100	**Data Processing Technologies**																			
5101	Computer Information Systems				A															
5101	Data Processing			C																
5200	**Health Services and Paramedic Tech.**																			
5200	Paramedic Technologies																C			
5202	Dental Assisting				C,A															
5203	Dental Hygiene				A															
5205	Medical Laboratory Technology				A															
5208	Nursing Science				A															
5209	Nursing - Nurses Aide												C							
5209	Practical Nursing				C															
5214	Medical Assisting				A															

TABLE 3 (continued)

Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ	ACC	KP CC	KCC	KO CC	KU CC	MS CC	NW CC	PWS CC	SCC	TV CC	RE	AVT	KTC	APU	SJC	ABC
5299	Community Health Aide								C											
5299	Community Health Practitioner								A								C			
5299	Health Science										C,A									
5300	**Mechanical and Engineering Tech.**																			
5302	Airframe and Powerplant													C,A						
5302	Air Traffic Control				A															
5302	Aviation Administration				A															
5302	Aviation Maintenance Technology				C,A															
5302	Aviation Technology													A			C			
5302	Professional Piloting				A					A				A						
5303	Graphics Arts and Design													A						
5304	Architectural Drafting				C															
5306	Automotive Technology			C	C,A											C				
5307	Diesel Mechanics			C																
5307	Diesel Technology				C,A		C,A									C				
5308	Welding												C							
5308	Welding Technology				A											C	C			
5309	Surveying										C						C			
5309	Surveying Technology				A															
5310	Electronics Technology				C,A					C,A				A			C			
5314	Industrial Process Instrumentation					A														
5315	Mechanical Technologies															C	C			
5317	Building Maintenance Technology								C								C			
5317	Construction and Building Tech															C				
5317	Construction Technology			A																
5317	Heating Technology									C										
5317	Marine Carpentry			C																
5317	Plumbing Technology																C			
5317	Refrigeration Technology									C										
5317	Refrigeration and Heating Technology									A										
5317	Vocational and Technical Education										C,A									
5317	Woods/Construction			C													C			
5399	Architectural & Engineering Drafting Tech.				A															
5399	Civil Engineering Drafting				C															
5399	Design Drafting					A														
5399	Industrial Electronics					A														
5399	Marine Engine Repair			C																
5399	Mechanical and Electrical Drafting				C															
5399	Petroleum Engineering Aide					A														
5399	Petroleum/Oil Technology					C,A								A		C				
5399	Power Technology			A													C			
5399	Structural Drafting				C															
5400	**Natural Science Technologies**																			
5402	Agriculture														A					
5403	Forestry and Wildlife Technologies															C			C,A	
5403	Forest Technology					A														
5404	Food Service - Baking Technology													C,A			C			

TABLE 3 (continued)

Certificates and Degrees Offered — Statewide

Program Taxonomy	Program Name	UAA	UAF	UAJ	ACC	KP CC	KCC	KO CC	KU CC	MS CC	NW CC	PWS CC	SCC	TV CC	RE	AVT	KTC	APU	SJC	ABC
5404	Food Service Technology				A											C	C			
5405	Family Living - Management													A						
5405	Home Economics				A			C												
5406	Marine Maintenance Technology												C							
5406	Marine Technology			A													C			
5499	Commercial Fishing							A												
5499	Natural Resources Technology																C			
5499	Seafood Processing							A												
5500	**Public Service Related Technologies**																		A	
5501	Public Services, Tech. General																			A
5502	Bible													A			C			
5503	Early Childhood Development			C																
5503	Early Childhood Education			A					A										A	
5503	Education Technologies													A						
5504	Library Technical Assistant																		A	
5505	Corrections Technologies													A						
5507	Fire Science				A									C						
5507	Fire Science Technology											A								
5599	Developmental Disabilities									A										
5599	Justice			A													C			
5599	Paralegal Studies													A						
5599	Paraprofessional Counseling																			
5600	**Arts and Science**																C			
5600	Applied Mathematics										A								A	
5600	Art						A													
5600	Arts and Science			A													C			
5600	Business Administration								A									A		
5600	Chemical Science																			
5600	Communications			A							C,A									
5600	Computer Information Systems																			
5600	Education			A					A											
5600	Justice			A																
5600	Liberal Arts			A						A										
5600	Science																			
5600	Yupik Language			A	A	A	A	A	A	A	A	A	A	A	A					
5600	General Program																			

SECTION II

CERTIFICATES AND DEGREES AWARDED

Over the period from 1978-79 to 1981-82, Alaskan institutions awarded 1,425 certificates and 4,462 degrees to Alaskan students for a total of 5,887 formal awards. As Table 4 shows, the associate degree is the most popular formal award, followed closely by the bachelor's degree and the certificate.

TABLE 4
Number of Certificates and Degrees Awarded
From 1978-79 to 1981-82

Form of Award	Number
Certificate	1,425
Associate	1,918
Bachelor's	1,789
Master's	742
Doctorate	13
TOTAL	5,887

Table 5 provides a detailed listing of certificates and degrees awarded from 1978-79 to 1981-82 by program offering.

The number of certificates awarded has declined slightly over the four-year period, from 355 in 1978-79 to 318 in 1981-82. Only the program area of natural science technologies has shown an increase in certificates awarded. On the other hand, the number of associate degrees awarded has increased almost 50% over the four-year period with the program areas of business and commerce and data processing technologies showing substantial increases. It is interesting to note that the number of associate degrees awarded in natural science technologies, unlike the certificates, decreased substantially.

At the bachelor's level, there has been a steady increase over the four-year period with some program areas such as agriculture and natural resources, business and management, health professions, and public affairs and services showing vigorous gains. In general, the traditional liberal arts subjects show a steady-state condition.

Overall, the number of master's degrees awarded has increased every year. Engineering showed substantial increases for the first three years and then had an abrupt decline; it remains to be seen if this pattern will persist in future years. The program areas of agricultural and natural resources, business and management, letters, physical sciences and psychology have shown the greatest increase in degrees awarded.

Because of the limited doctoral level program offerings and degrees, few trends may be discerned.

TABLE 5
Certificates and Degrees Awarded - Statewide

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Technologies	14	5	2	4	25
5004	Business Management Technologies	1	0	0	0	1
5005	Office Occupations	34	15	9	5	63
5005	Secretarial Technologies	26	30	34	29	119
	TOTAL	75	50	45	38	208
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5202	Dental Assisting	0	12	12	8	32
5209	Nursing - Nursing Aide	0	4	0	0	4
5209	Practical Nursing	0	16	15	8	39
5299	Community Health Aide	11	20	6	5	42
5299	Health Science	11	0	0	0	11
	TOTAL	22	52	33	21	128
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Aviation Maintenance Tech.	0	10	10	0	20
5304	Architectural Drafting	0	4	0	1	5
5306	Automotive Technology	23	22	24	27	96
5307	Diesel Technology	29	34	36	30	129
5308	Welding Technologies	11	34	12	21	78
5310	Electronics Technology	11	19	7	9	46
5315	Mechanical Technology	32	26	15	21	94
5317	Building Maintenance Tech.	0	0	1	0	1
5317	Construction and Building Tech.	36	42	22	18	118
5317	Heating Technology	2	0	4	3	9
5317	Refrigeration Technology	0	11	10	11	32
5317	Vocational and Technical Ed.	6	0	0	0	6
5399	Civil Engineering Drafting	0	12	0	1	13
5399	Mechanical and Electrical Drafting	25	1	0	0	26
5399	Oil/Petroleum Technology	47	43	52	45	187
5399	Structural Drafting	0	9	0	3	12
	TOTAL	222	267	193	190	872
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry and Wildlife Tech.	8	26	32	34	100
5404	Food Service - Baking Tech.	1	1	0	1	3
5405	Food Services Technologies	25	27	26	33	111
	TOTAL	34	54	58	68	214

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Certificate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5500	PUBLIC SERVICE RELATED TECHNOLOGIES	0	0	0	1	1
5503	Early Childhood Education	1	0	0	0	1
5507	Fire Science Technology					
	TOTAL	1	0	0	1	2
	OTHER	1	0	0	0	1
	TOTAL	1	0	0	0	1
	TOTAL CERTIFICATES AWARDED	355	423	329	318	1425

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Associate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	2	1	2	5
5001	Business Administration	0	32	34	53	119
5002	Accounting	14	12	7	26	59
5004	Business Supervision	0	1	0	1	2
5005	Office Occupations	18	25	13	15	71
5005	Secretarial Science	2	0	2	0	4
	TOTAL	34	72	57	97	260
5100	DATA PROCESSING TECHNOLOGIES					
5101	Computer Information Systems	1	11	5	14	31
	TOTAL	1	11	5	14	31
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5200	Paramedic Technology	5	5	1	0	11
5202	Dental Assisting	3	4	3	5	15
5203	Dental Hygiene	6	8	10	7	31
5205	Medical Laboratory Technology	9	4	10	11	34
5208	Nursing Science	30	23	19	36	108
5214	Medical Assisting	7	2	1	0	10
5299	Community Health Practitioner	0	0	1	0	1
	TOTAL	60	46	45	59	210
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Airframe and Power Plant	0	5	3	4	12
5302	Air Traffic Control	0	8	6	5	19
5302	Aviation Administration	0	4	3	2	9
5302	Aviation Maintenance Technology	18	3	1	2	24
5302	Aviation Technology	10	0	5	1	16
5302	Professional Piloting	2	16	13	11	42
5303	Graphic Arts and Design	0	0	2	0	2
5306	Automotive Technology	3	4	2	3	12
5307	Diesel Technology	2	4	3	5	14
5308	Welding Technology	0	1	3	2	6
5309	Surveying Technology	5	5	8	5	23
5310	Electronics Technology	18	24	19	27	88
5312	Industrial Technologies	14	0	0	0	14
5314	Industrial Proc. Instrumentation	0	3	10	8	21
5317	Construction Technology	2	0	0	3	5
5317	Refrigeration & Heating Tech.	1	0	2	2	5
5399	Architectural & Eng. Drafting Tech.	6	12	4	8	30

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5300	MECHANICAL & ENGINEERING TECH. (cont.)					
5399	Industrial Electronics	0	3	4	2	9
5399	Petroleum Engineering Aide	0	0	3	2	5
5399	Petroleum Technology	4	39	62	64	169
	TOTAL	85	131	153	156	525
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry & Wildlife Technologies	4	7	0	0	11
5404	Food Service - Baking Technology	1	4	5	0	10
5404	Food Service Technology	5	1	1	1	8
5405	Home Economics	4	2	3	5	14
5406	Marine Technology	1	0	0	1	2
	TOTAL	15	14	9	7	45
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5501	Public Service Technologies, Gen.	13	0	0	0	13
5502	Bible	0	0	5	5	10
5503	Early Childhood Development	6	0	2	7	15
5503	Early Childhood Education	3	3	6	2	14
5503	Education Technologies	6	2	0	3	11
5504	Library Technical Assistant	2	8	3	3	16
5505	Corrections Technologies	0	2	2	1	5
5507	Fire Science	9	10	6	7	32
5599	Justice	7	5	1	0	13
5599	Paralegal Studies	0	0	1	1	2
5599	Paraprofessional Counseling	0	0	3	4	7
	TOTAL	46	30	29	33	138
5600	ARTS & SCIENCES					
5600	Arts and Science	0	0	20	20	40
5600	Chemical Science	2	0	1	2	5
5600	Computer Information Systems	3	3	1	13	20
5600	Education	0	2	0	0	2
5600	Justice	0	4	4	10	18
5600	Liberal Arts	0	1	4	2	7
5600	Science	3	3	7	4	17
5600	General Program	141	130	158	169	598
	TOTAL	149	143	195	220	707

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
	OTHER	0	1	1	0	2
	TOTAL	0	1	1	0	2
	TOTAL ASSOCIATE DEGREES AWARDED	390	448	494	586	1918

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Bachelor's

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	2	2	2	6
0107	Fisheries Science	0	4	2	5	11
0107	Wildlife Management	6	8	13	7	34
0115	Natural Resources Management	5	13	9	10	37
	TOTAL	11	27	26	24	88
0300	AREA STUDIES					
0307	Russian Studies	0	1	0	0	1
0399	Northern Studies	0	0	3	0	3
	TOTAL	0	1	3	0	4
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	20	39	40	31	130
0401	Biology	0	1	2	2	5
	TOTAL	20	40	42	33	135
0500	BUSINESS & MANAGEMENT					
0501	Business	2	3	4	6	15
0502	Accounting	6	13	14	14	47
0506	Business Administration	41	44	55	74	214
	TOTAL	49	60	73	94	276
0600	COMMUNICATIONS					
0602	Journalism	9	12	12	6	39
0699	Journalism & Public Communications	2	3	1	8	14
	TOTAL	11	15	13	14	53
0700	COMPUTER & INFORMATION SCIENCES					
0701	Computer Science	0	0	0	1	1
	TOTAL	0	0	0	1	1
0800	EDUCATION					
0801	Education	9	2	2	0	13
0802	Elementary Education	50	42	50	43	185
0803	Secondary Education	2	5	10	12	29
0823	Early Childhood Education	0	3	2	1	6
0832	Music Education	0	0	2	0	2
0832	Music Education - Elementary	0	0	0	2	2

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0800	EDUCATION					
0832	Music Education - Secondary	0	0	0	7	7
0835	Physical Education	3	1	6	7	17
0899	Cross-Cultural Education	0	3	2	7	12
	TOTAL	64	56	74	79	273
0900	ENGINEERING					
0907	Petroleum Engineering	0	0	0	5	5
0908	Civil Engineering	16	13	16	17	62
0909	Electrical Engineering	2	5	10	10	27
0910	Mechanical Engineering	2	5	4	9	20
0911	Geological Engineering	3	7	5	4	19
0918	Mining Engineering	5	2	3	5	15
	TOTAL	28	32	38	50	148
1000	FINE & APPLIED ARTS					
1002	Art	13	19	13	18	63
1004	Music Performance	0	1	4	1	6
1005	Music	6	5	2	3	16
1007	Theatre	0	2	5	1	8
	TOTAL	19	27	24	23	93
1100	FOREIGN LANGUAGES					
1101	Foreign Languages	0	0	2	2	4
1199	Inupiaq Eskimo	0	2	1	0	3
1199	Yupik Eskimo	0	1	0	2	3
	TOTAL	0	3	3	4	10
1200	HEALTH PROFESSIONS					
1203	Nursing Science	21	35	28	49	133
1223	Medical Technology	0	0	1	1	2
	TOTAL	21	35	29	50	135
1500	LETTERS					
1501	English	8	8	10	13	39
1505	Linguistics	0	0	0	1	1
1506	Speech Communication	2	1	2	1	6
1509	Philosphy	3	1	0	0	4
	TOTAL	13	10	12	15	50

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
1700	MATHEMATICS					
1701	Mathematics	8	9	11	10	38
	TOTAL	8	9	11	10	38
1900	PHYSICAL SCIENCES					
1902	Physics	3	3	3	3	12
1905	Chemistry	4	4	4	2	14
1914	Geology	8	4	7	5	24
1917	Earth Science	0	1	1	1	3
	TOTAL	15	12	15	11	53
2000	PSYCHOLOGY					
2001	Psychology	24	18	26	22	90
	TOTAL	24	18	26	22	90
2100	PUBLIC AFFAIRS & SERVICES					
2104	Social Work	2	2	12	11	27
2105	Justice	0	11	11	11	33
	TOTAL	2	13	23	22	60
2200	SOCIAL SCIENCES					
2202	Anthropology	11	9	10	10	40
2204	Economics	5	4	3	7	19
2205	History	14	5	7	9	35
2206	Geography	5	2	4	4	15
2207	Political Science	9	5	12	12	38
2208	Sociology	7	19	8	10	44
	TOTAL	51	44	44	52	191
2300	THEOLOGY					
2301	Theological Professions, General	0	3	0	3	6
	TOTAL	0	3	0	3	6
4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	1	3	21	25
4902	General Science	1	3	2	0	6
4902	Natural Science	0	3	3	4	10
4903	Humanities	3	0	0	3	6
4999	Interdisciplinary Studies	11	1	2	1	15
	TOTAL	15	8	10	29	62

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
	OTHER	18	5	0	0	23
	TOTAL	18	5	0	0	23
	TOTAL BACHELOR'S DEGREES AWARDED	369	418	466	536	1789

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Master's

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	3	1	3	7
0107	Wildlife Management	4	6	7	7	24
0115	Natural Resources Management	2	0	2	5	9
0199	Fisheries Biology	0	1	3	1	5
	TOTAL	6	10	13	16	45
0400	BIOLOGICAL SCIENCES					
0401	Biology	1	9	2	4	16
0402	Botany	3	1	0	0	4
0407	Zoology	1	3	3	1	8
0418	Marine Biology	0	0	1	0	1
	TOTAL	5	13	6	5	29
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	11	11	15	17	54
0511	Real Estate	0	0	1	1	2
0515	Human Resources Management	0	0	0	2	2
	TOTAL	11	11	16	20	58
0800	EDUCATION					
0801	Education	84	85	79	65	313
0802	Elementary Education	0	0	0	2	2
0803	Secondary Education	0	0	0	2	2
0826	College Student Personnel Admin.	0	0	0	3	3
0826	Guidance and Counseling	0	0	0	3	3
0827	Public School Administration	0	0	0	6	6
0839	Vocational Education	0	0	0	2	2
0899	Cross-Cultural Education	0	0	1	2	3
	TOTAL	84	85	80	85	334
0900	ENGINEERING					
0908	Civil Engineering	1	4	8	5	18
0913	Engineering Management	10	6	19	4	39
0913	Science Management	3	5	1	0	9
0918	Mineral Preparation Engineering	2	1	0	1	4
0918	Mining Engineering	0	1	1	0	2
0922	Environmental Quality Engineering	0	1	0	2	3
0922	Environmental Quality Science	0	2	2	1	5
0999	Arctic Engineering	0	0	0	3	3
	TOTAL	16	20	31	16	83

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
1000	FINE & APPLIED ARTS					
1005	Music	0	2	1	2	5
	TOTAL	0	2	1	2	5
1500	LETTERS					
1501	English	1	5	6	7	19
	TOTAL	1	5	6	7	19
1700	MATHEMATICS					
1701	Mathematics	1	1	0	0	2
	TOTAL	1	1	0	0	2
1900	PHYSICAL SCIENCES					
1902	Physics	1	0	0	1	2
1905	Chemistry	1	2	0	2	5
1913	Atmospheric Science	0	0	1	1	2
1919	Oceanography	2	5	7	3	17
1999	Geology and Geophysics	7	6	3	8	24
1999	Space Physics	0	1	2	3	6
	TOTAL	11	14	13	18	56
2000	PSYCHOLOGY					
2004	Counseling Psychology	6	4	6	13	29
	TOTAL	6	4	6	13	29
2100	PUBLIC AFFAIRS & SERVICES					
2102	Public Administration	18	11	9	8	46
	TOTAL	18	11	9	8	46
2200	SOCIAL SCIENCES					
2202	Anthropology	3	0	7	3	13
	TOTAL	3	0	7	3	13
4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	3	0	5	8
4902	General Science	1	0	0	0	1
4999	Interdisciplinary Studies	1	2	1	1	5
	TOTAL	2	5	1	6	14

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
	OTHER	4	4	1	0	9
	TOTAL	4	4	1	0	9
	TOTAL MASTER'S DEGREES AWARDED	168	185	190	199	742

TABLE 5 (continued)
Certificates and Degrees Awarded - Statewide

Level: Doctorate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	2	0	1	1	4
	TOTAL	2	0	1	1	4
1900	PHYSICAL SCIENCES					
1999	Geology and Geophysics	2	0	0	0	2
1999	Space Physics	0	0	1	0	1
	TOTAL	2	0	1	0	3
4900	INTERDISCIPLINARY STUDIES					
4999	Interdisciplinary Studies	1	0	0	5	6
	TOTAL	1	0	0	5	6
	TOTAL DOCTORAL DEGREES AWARDED	5	0	2	6	13

What programs show the highest number of awards offered over the four-year period? Table 6 shows each formal award, and the five programs with the highest number of awards in descending order. (Because of the small number of doctorates awarded, these formal awards are omitted from this analysis.) Business administration, education, petroleum technologies, and nursing science are programs that appear to be the most popular.

TABLE 6
Programs Showing the Highest Number
of Awards from 1978-79 to 1981-82
In Descending Order
(Number of Awards)

Certificate		Associate		Bachelor's		Master's	
Oil/Petroleum Tech.	(187)	Gen Program*	(598)	Business Admin.	(214)	Education	(313)
Diesel Tech.	(129)	Petroleum Tech.	(169)	Elementary Ed	(184)	Business Admin.	(54)
Secretarial Tech.	(119)	Business Admin.	(119)	Nursing Science	(133)	Public Admin.	(46)
Construction & Bldg. Tech.	(118)	Nursing Science	(108)	Biological Science	(130)	Engineering Mgmt.	(39)
Food Service Tech.	(111)	Electronics Tech.	(88)	Psychology	(90)	Counseling Psychology	(29)

*Transfer Program

SECTION III

INSTITUTIONAL MISSION AS A FUNCTION OF DEGREES AWARDED

The postsecondary institutions in Alaska offer a variety of programs and services. Each publishes a catalog describing its institutional mission and the programs it offers. The purpose of this section is to illustrate institutional missions by showing the number and percentage of certificates and degrees awarded over the four-year period for each institution. A four-year "picture" of certificate and degree productivity provides a good operational definition of what an institution is really doing. Figures 1 through 22 show the degree of productivity for each institution.

The University of Alaska, Anchorage (Figure 1) has awarded bachelor's degrees in a wide variety of programs, although well over 50% of those degrees were awarded in the four program areas of business and management, health professions, social sciences, and education. At the master's level at UAA, education is by far the most popular program offering, with engineering a distant second. The University of Alaska, Fairbanks campus (Figure 2) also offers a wide variety of programs. Although engineering and education are the most popular, there is quite a disparate range of bachelor's degree graduates. At the master's level, education is the most popular program area, but there are several program areas from which a substantial number of students have graduated. For the 13 doctoral students graduating over the past four years, the physical and biological sciences represent a significant portion of degrees awarded.

Both the University of Alaska, Anchorage and the University of Alaska, Fairbanks appear to be multi-purpose, comprehensive institutions offering a wide area of program offerings, and awarding a commensurate number of degrees. The University of Alaska, Juneau (Figure 3), on the other hand, presents a different picture. Substantially smaller in size

than the other two university centers, the University of Alaska, Juneau offers the certificate through the master's degree. At the certificate level, the vast majority of graduates were in the mechanical and engineering subject areas. For the associate degree, approximately 50% of the awards were in arts and science with another significant portion in business and commerce. At the bachelor's degree level, education is again the most popular program area; however, other program areas such as interdisciplinary studies and agricultural and natural resources represent a very high proportion of graduates. Two program areas, education and public affairs and services, represent over 75% of the formal awards at the master's level, with engineering, agricultural, natural resources, and business and management accounting for the remainder.

The community colleges in Alaska (Figures 6 through 15) share two or three program areas. At almost every community college, the program areas of mechanical and engineering technologies and business and commerce represent a significant portion of their certificates and degrees awarded. At two of the rural institutions, Kuskokwim Community College and Northwest Community College, health services and paramedic technologies are very popular. At the Alaska-Vocational Technical Center in Seward (Figure 16), mechanical and engineering technologies is by far the most popular program area, followed by natural science technologies.

The private non-proprietary institutions in Alaska offer a diverse range of programs and services (see Figures 18 through 22). Alaska Pacific University shows a liberal arts emphasis at the bachelor's level and stresses the program area of education at the master's level. Sheldon Jackson College in Sitka has had a number of graduates in natural

science technologies at both the certificate and associate level; the college also awards a limited number of bachelor's degrees in education. Alaska Bible College projects its single purpose mission by awarding both associate and bachelor's degrees in Bible and theology.

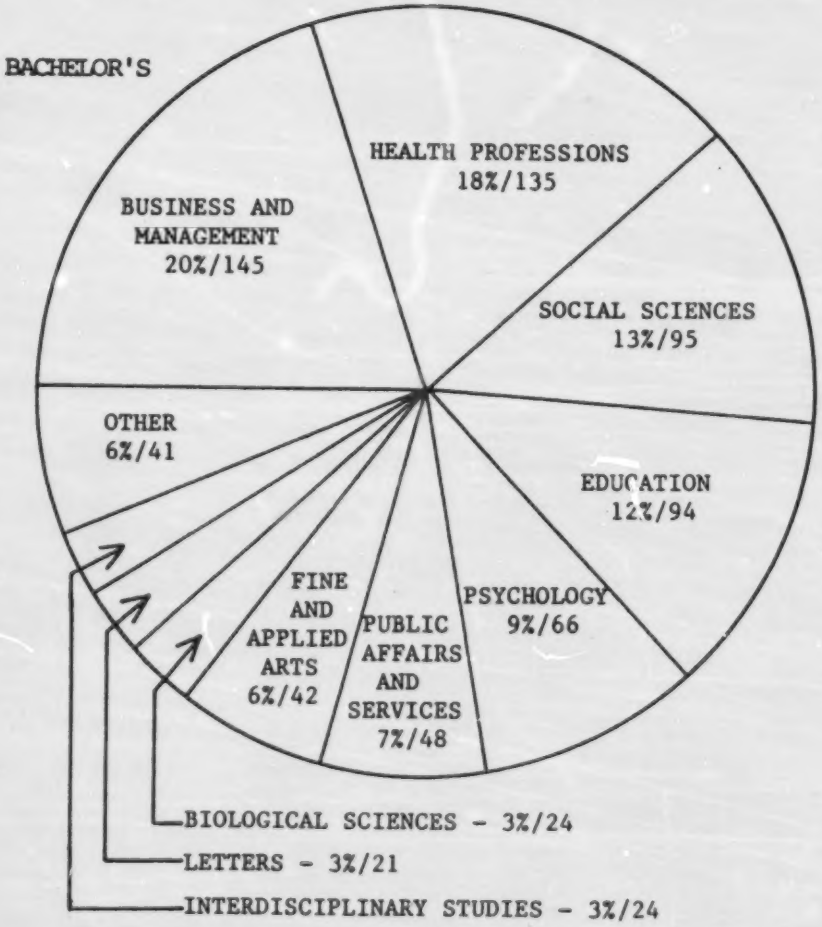
FIGURE 1

UNIVERSITY OF ALASKA, ANCHORAGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



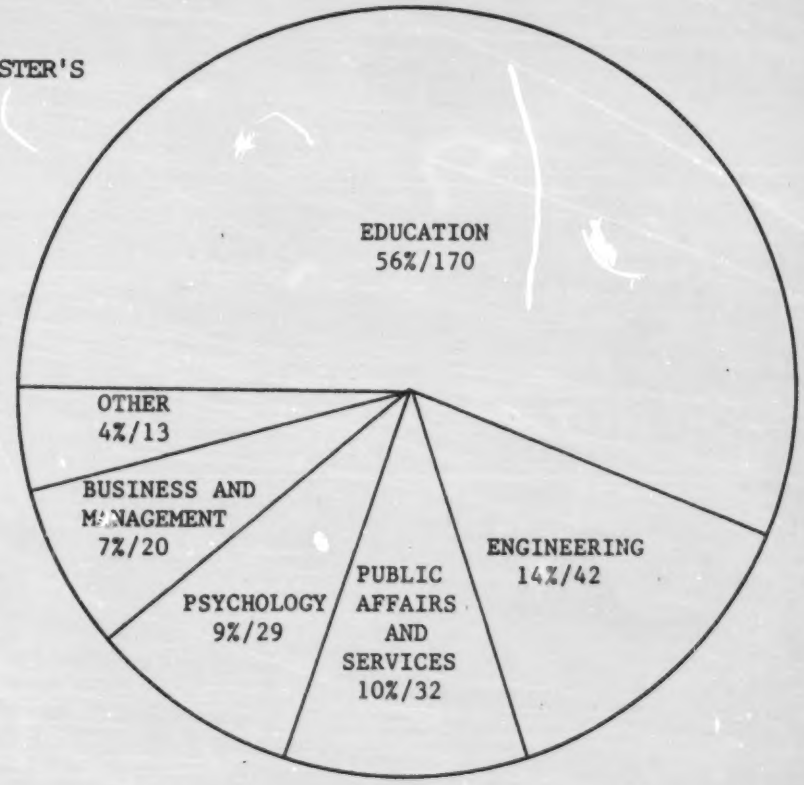


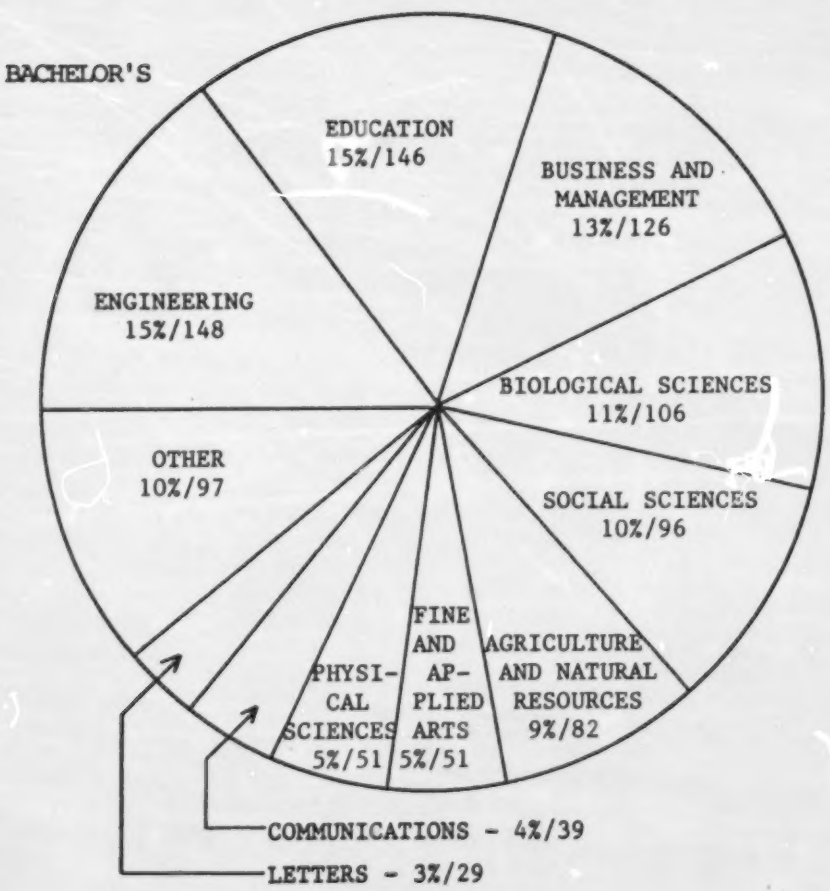
FIGURE 2

UNIVERSITY OF ALASKA, FAIRBANKS

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



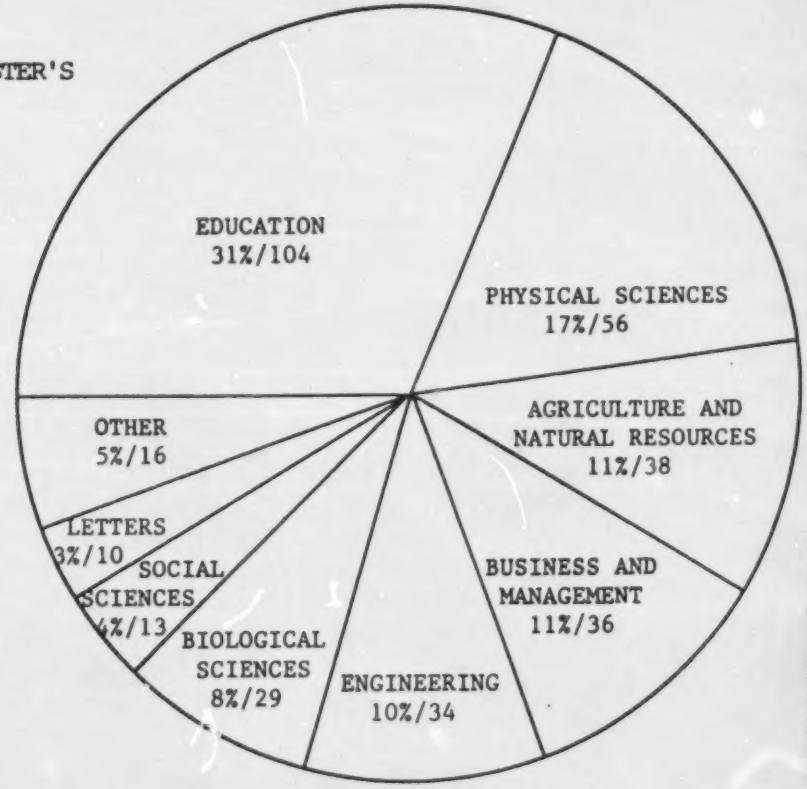


FIGURE 3

UNIVERSITY OF ALASKA, FAIRBANKS

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

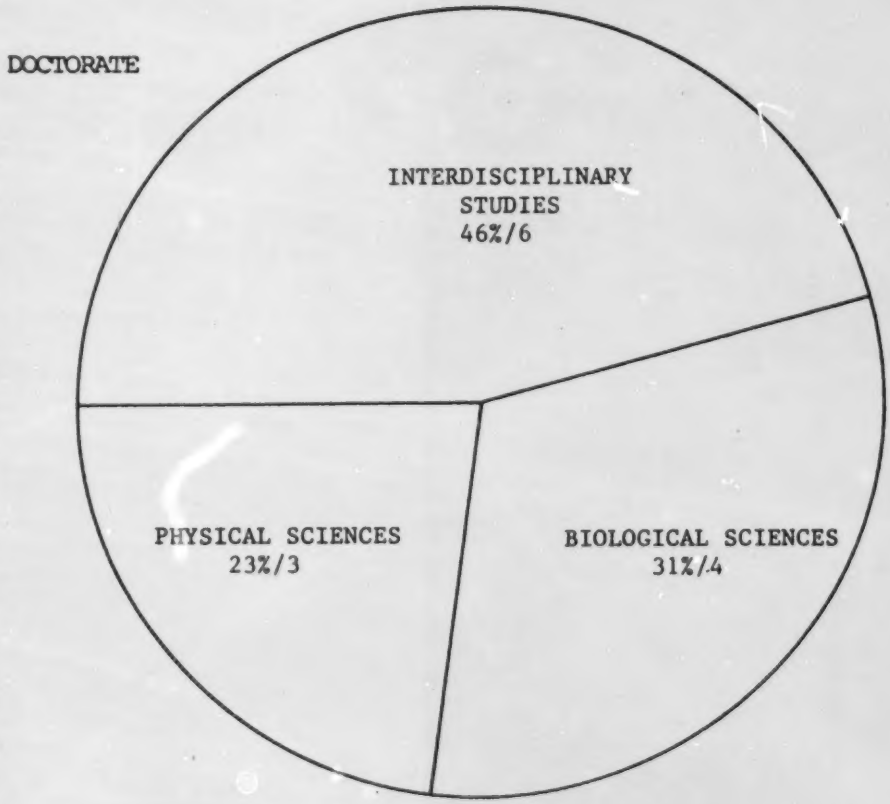


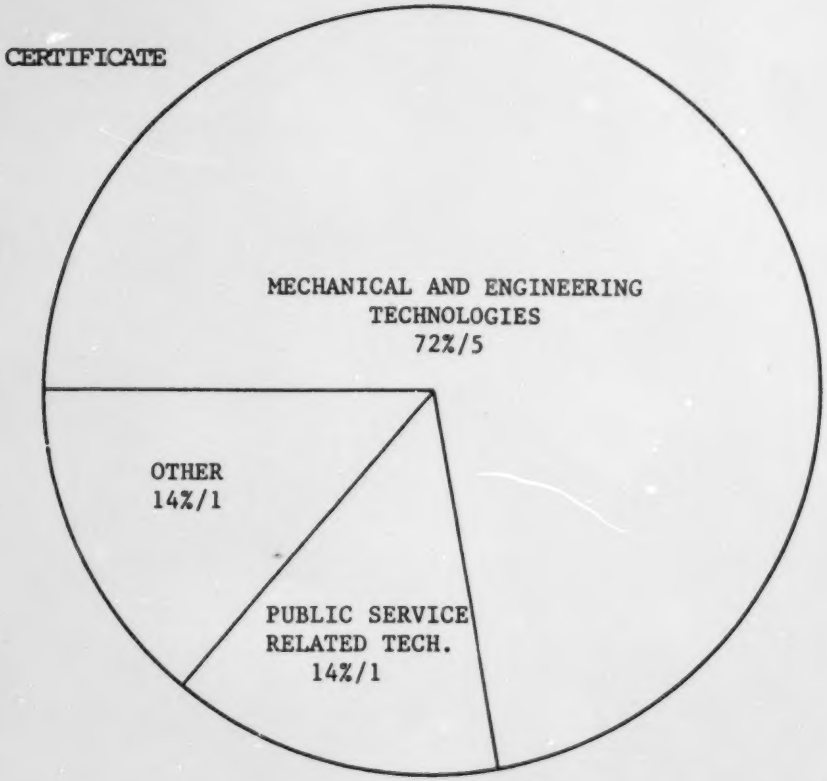
FIGURE 4

UNIVERSITY OF ALASKA, JUNEAU

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



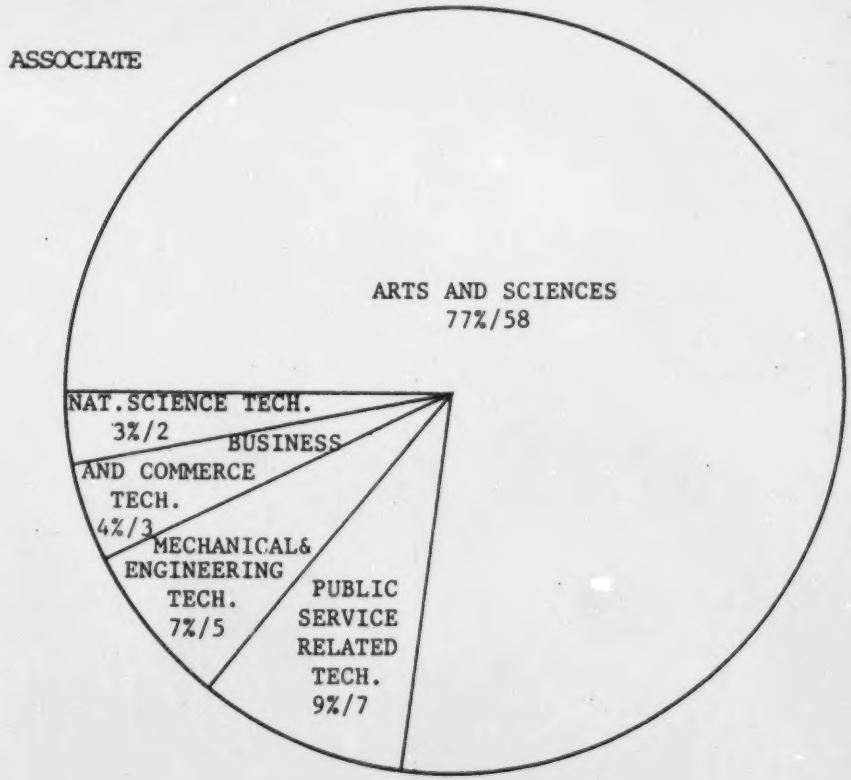


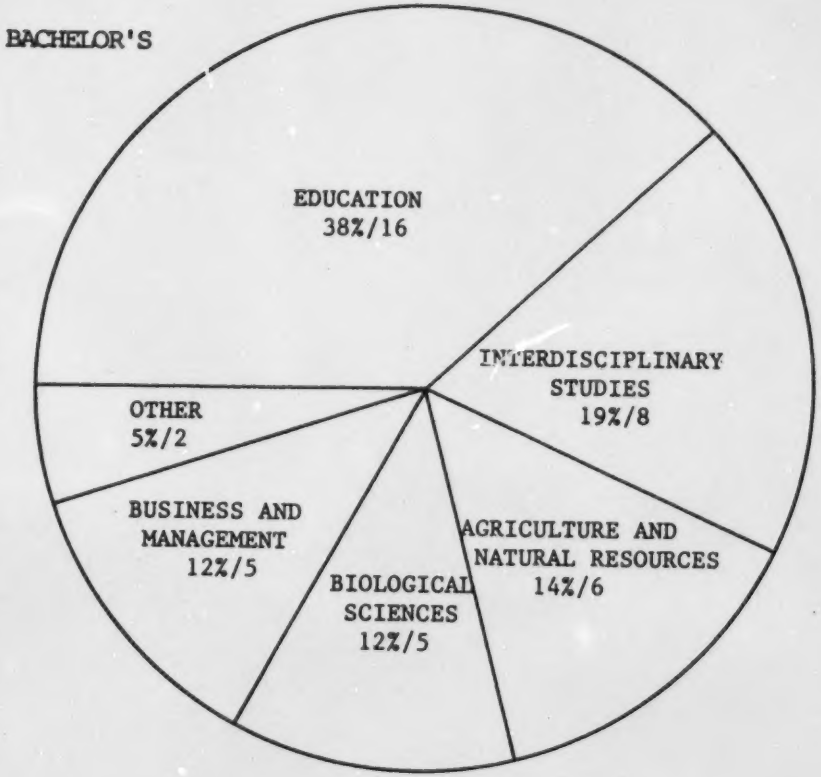
FIGURE 5

UNIVERSITY OF ALASKA, JUNEAU

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



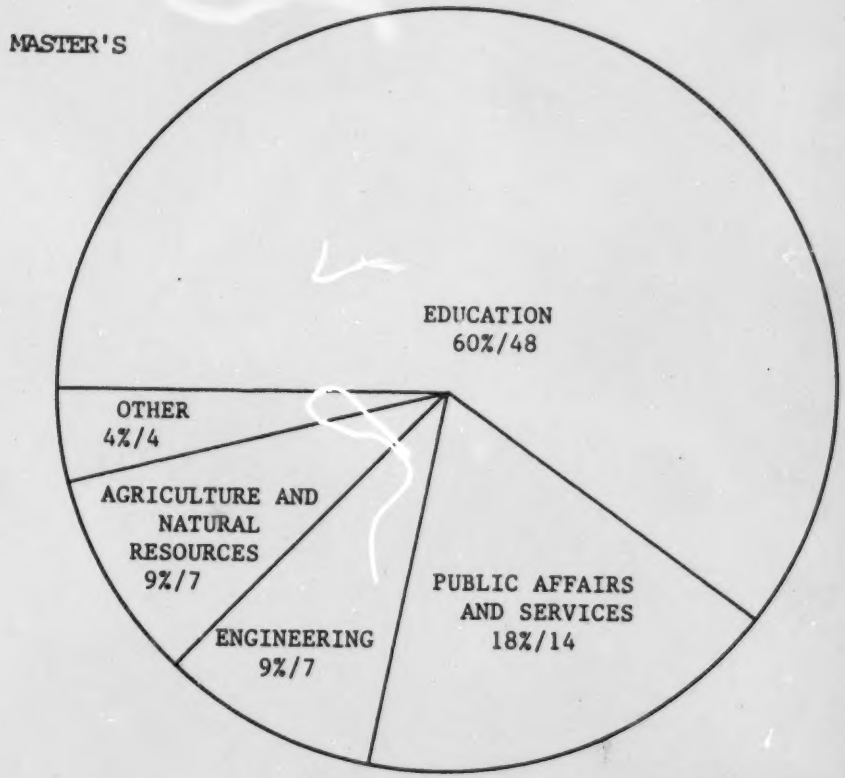


FIGURE 6

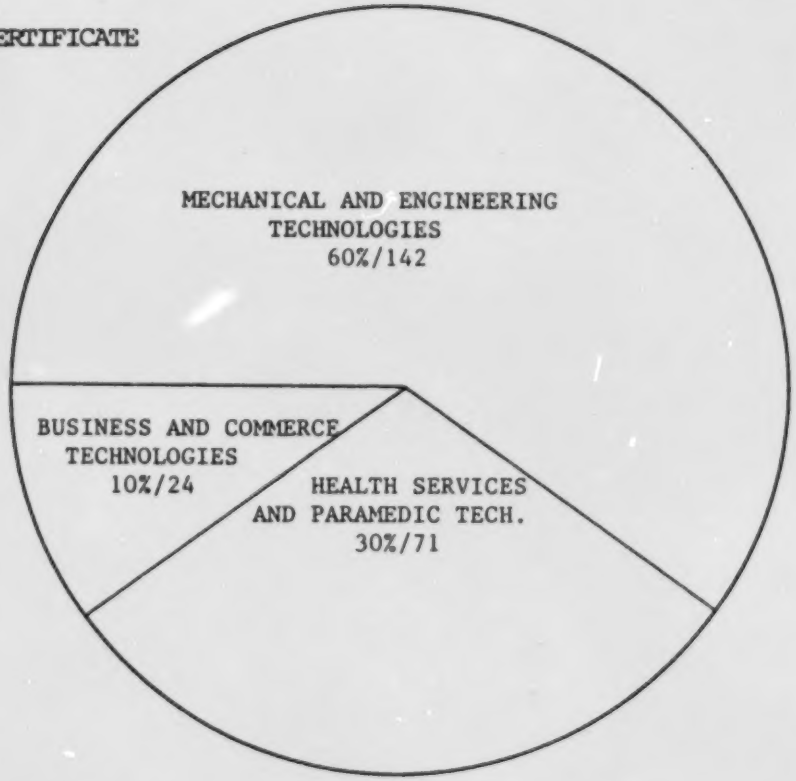
ANCHORAGE COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATE



ASSOCIATE

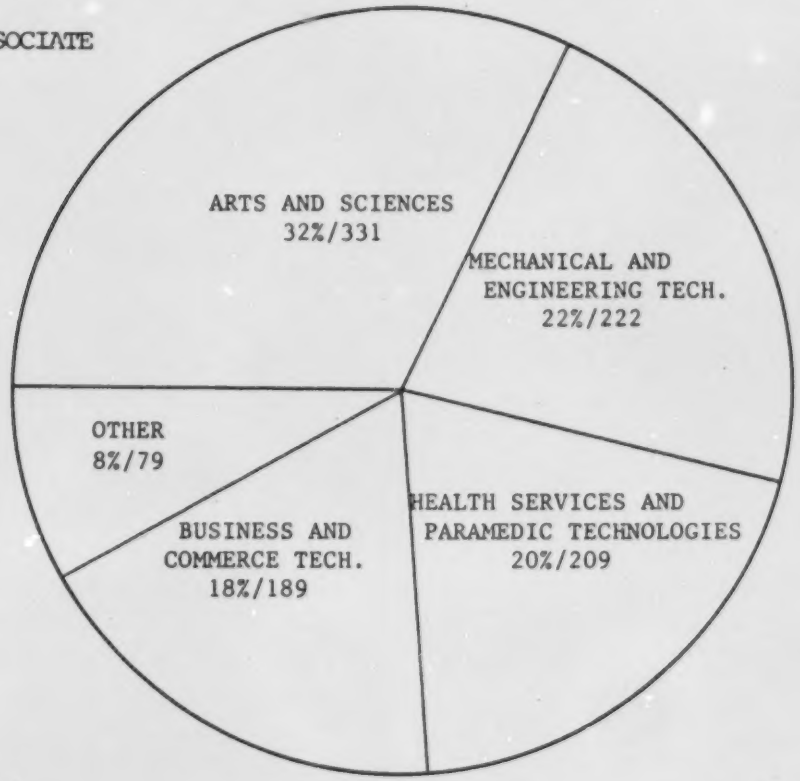


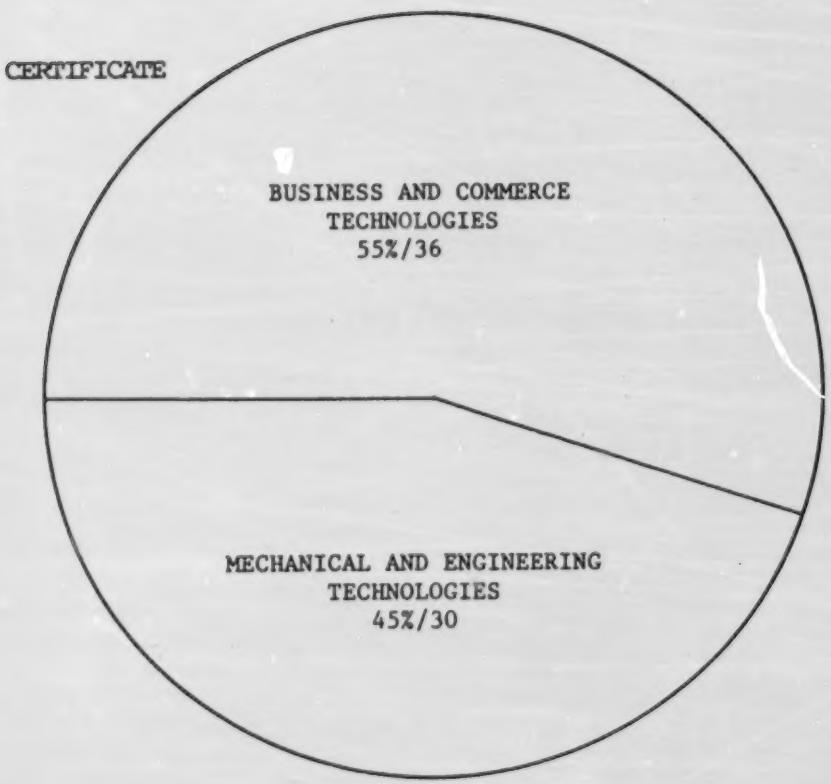
FIGURE 7

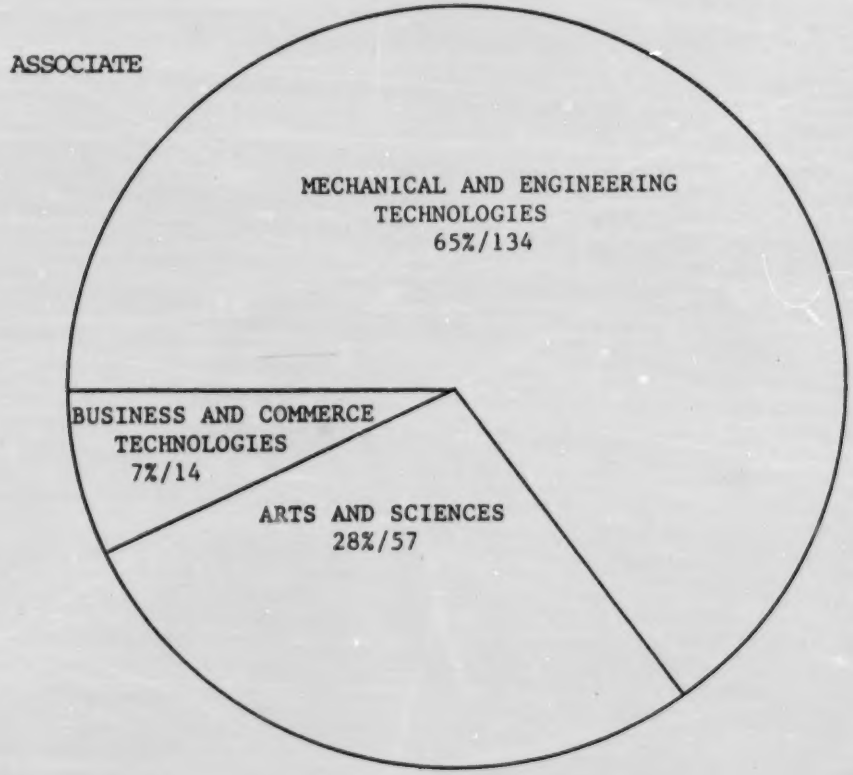
KENAI PENINSULA COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)





57

58

FIGURE 8

KETCHIKAN COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

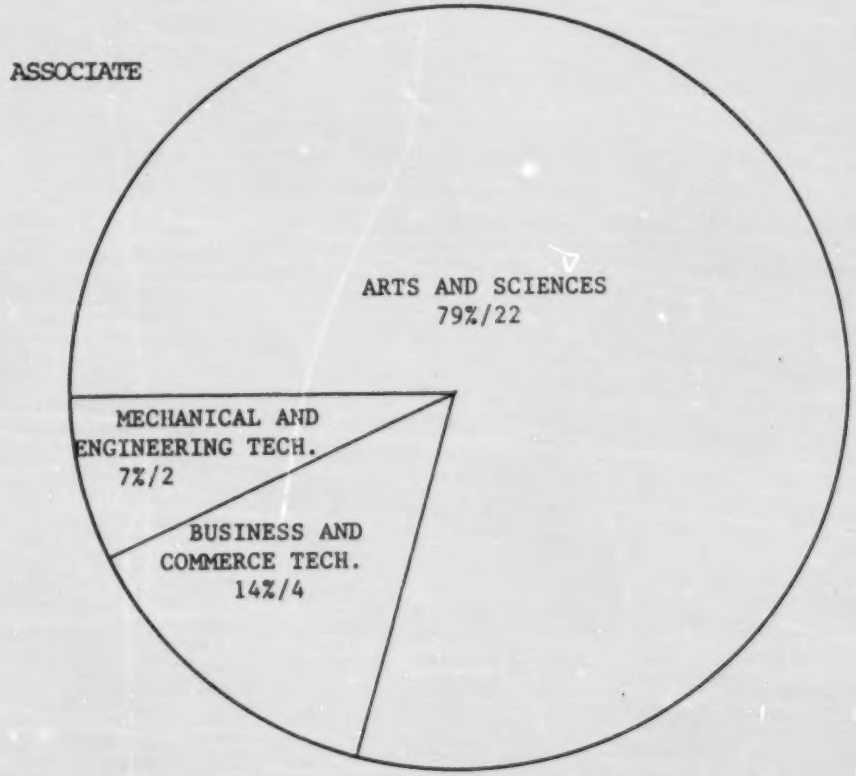


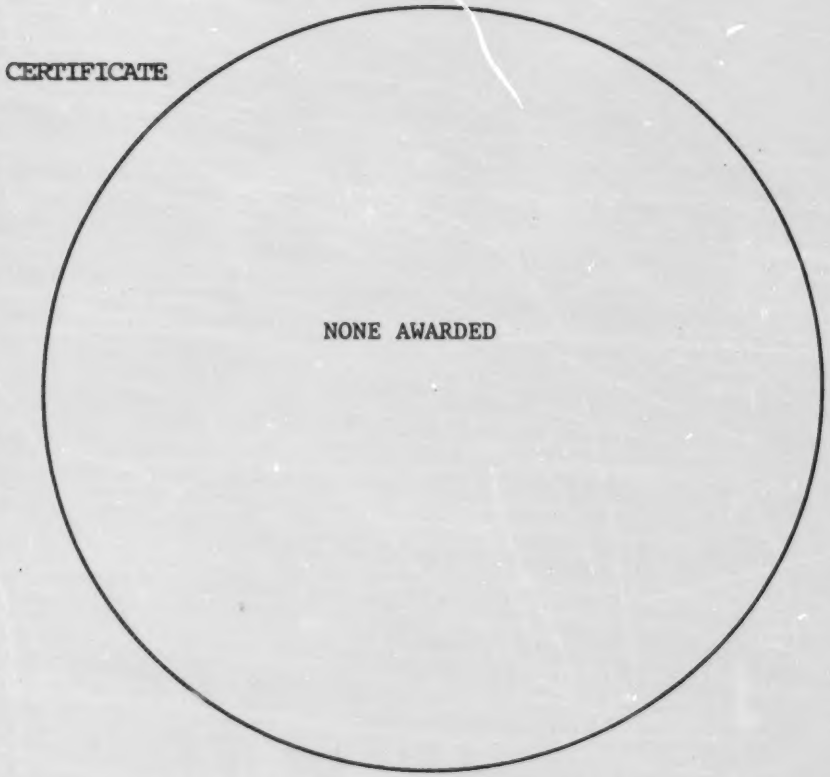
FIGURE 9

KODIAK COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



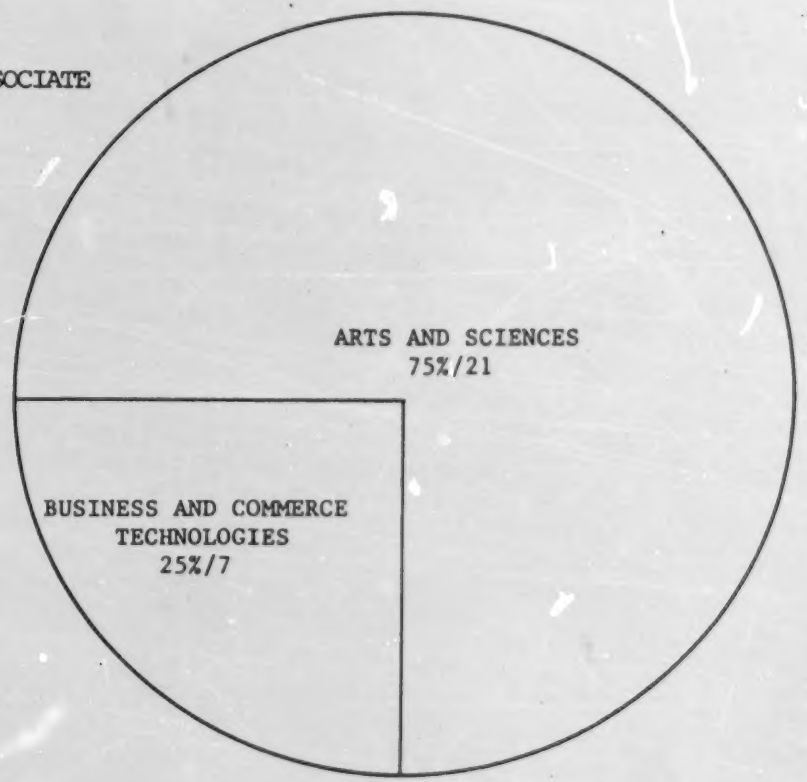


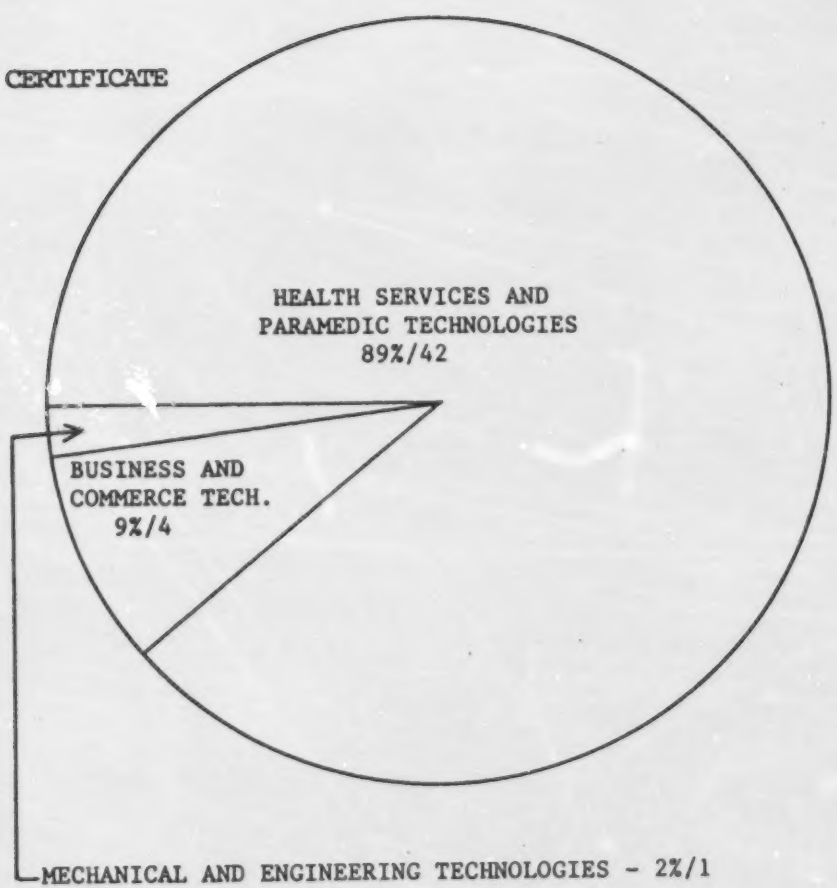
FIGURE 10

KUSKOKWIM COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)


CERTIFICATE
HEALTH SERVICES AND PARAMEDIC TECHNOLOGIES 89%/42
BUSINESS AND COMMERCE TECH. 9%/4
MECHANICAL AND ENGINEERING TECHNOLOGIES - 2%/1

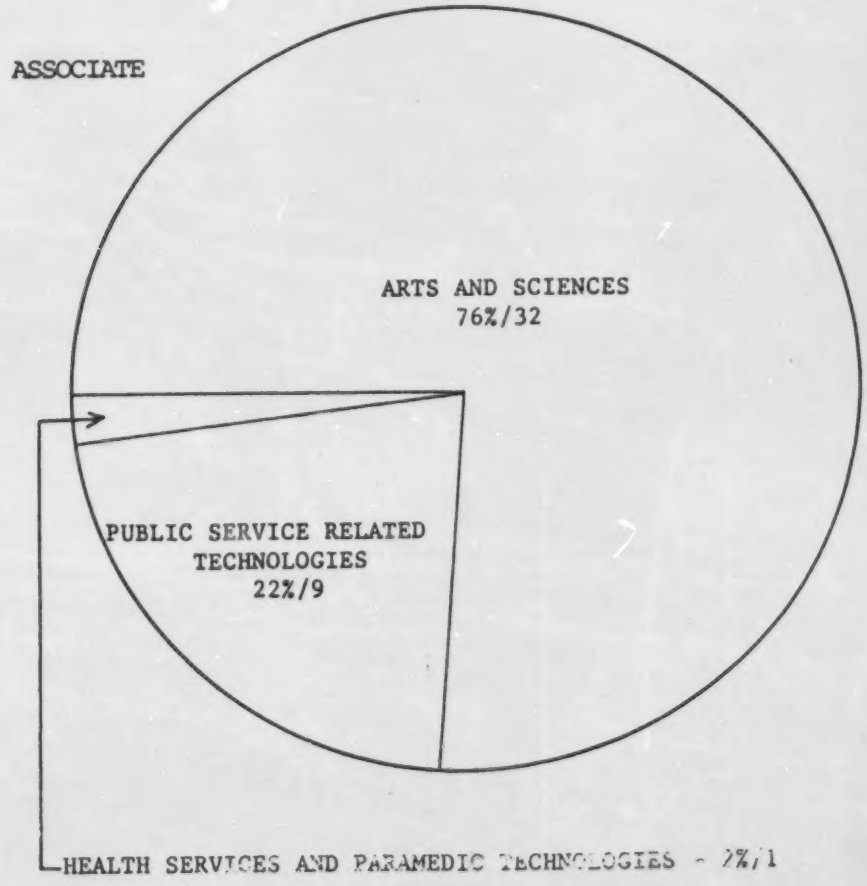

ASSOCIATE
ARTS AND SCIENCES 76%/32
PUBLIC SERVICE RELATED TECHNOLOGIES 22%/9
HEALTH SERVICES AND PARAMEDIC TECHNOLOGIES - 2%/1

FIGURE 11

MATANUSKA-SUSITNA COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

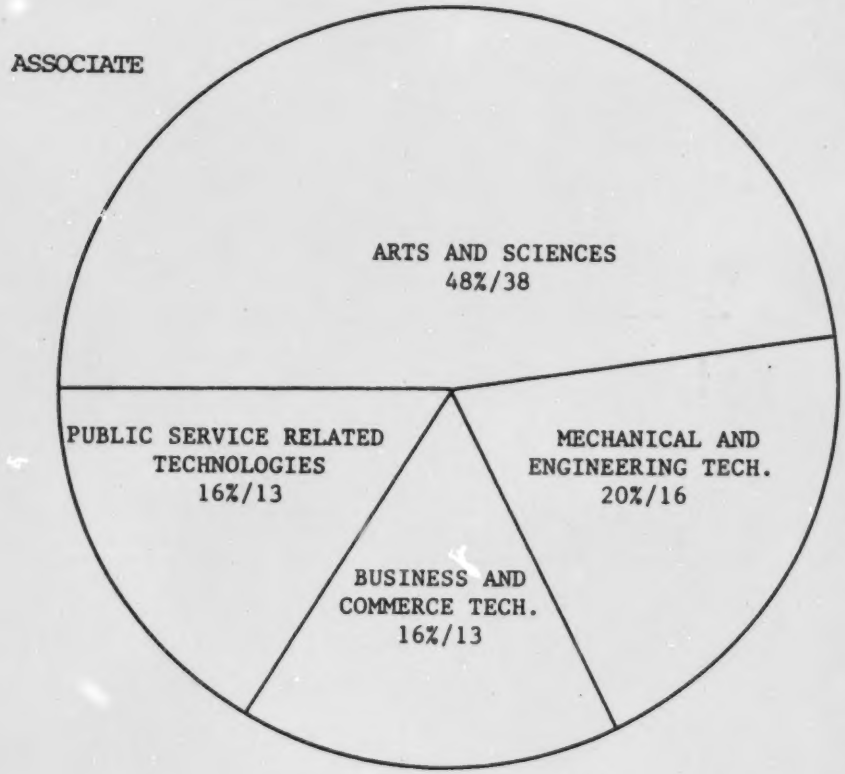


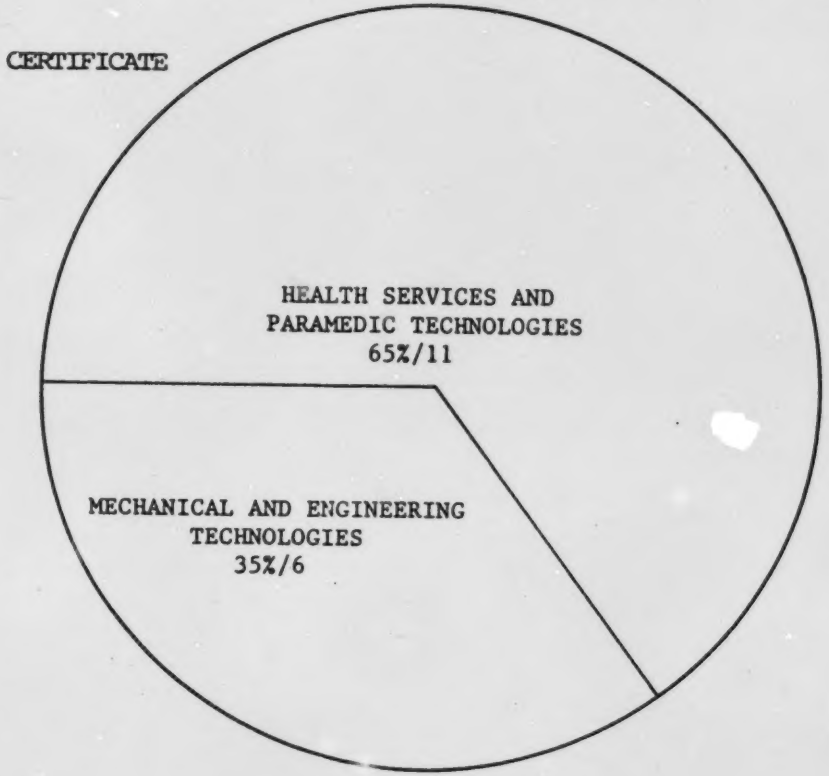
FIGURE 12

NORTHWEST COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



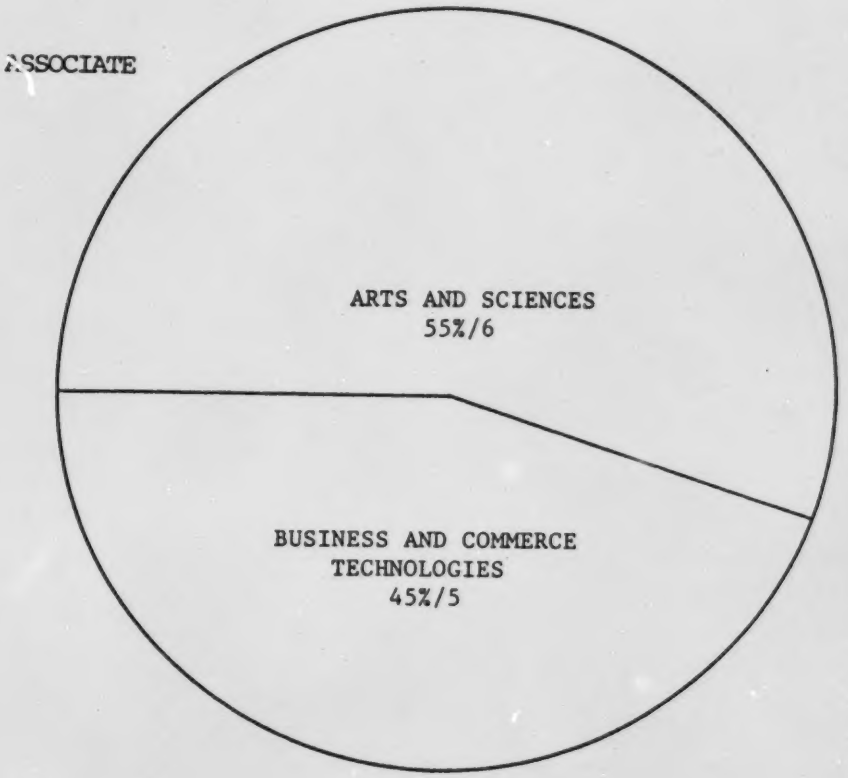


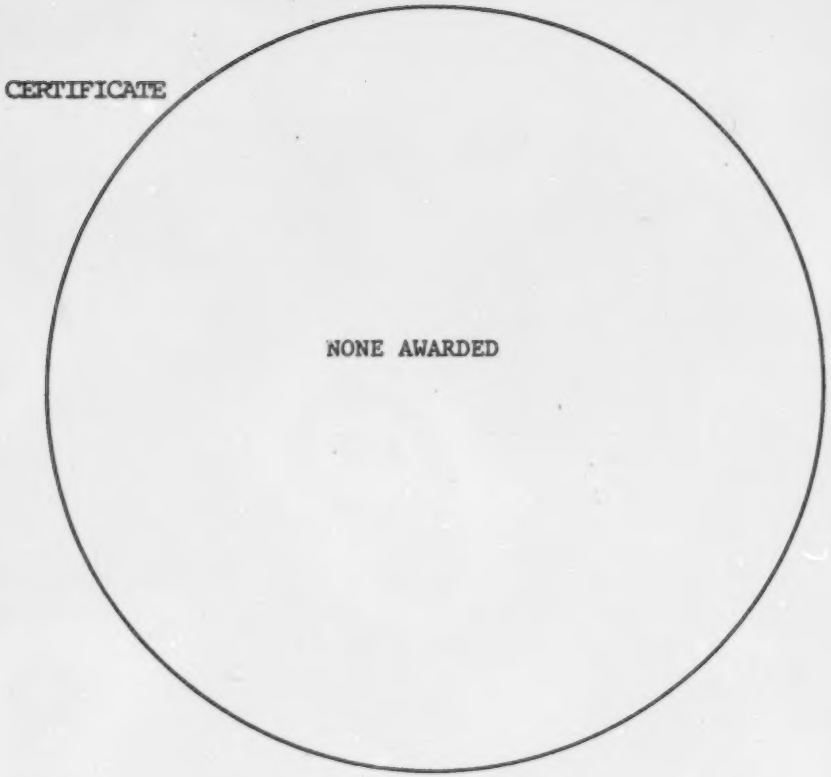
FIGURE 13

PRINCE WILLIAM SOUND COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



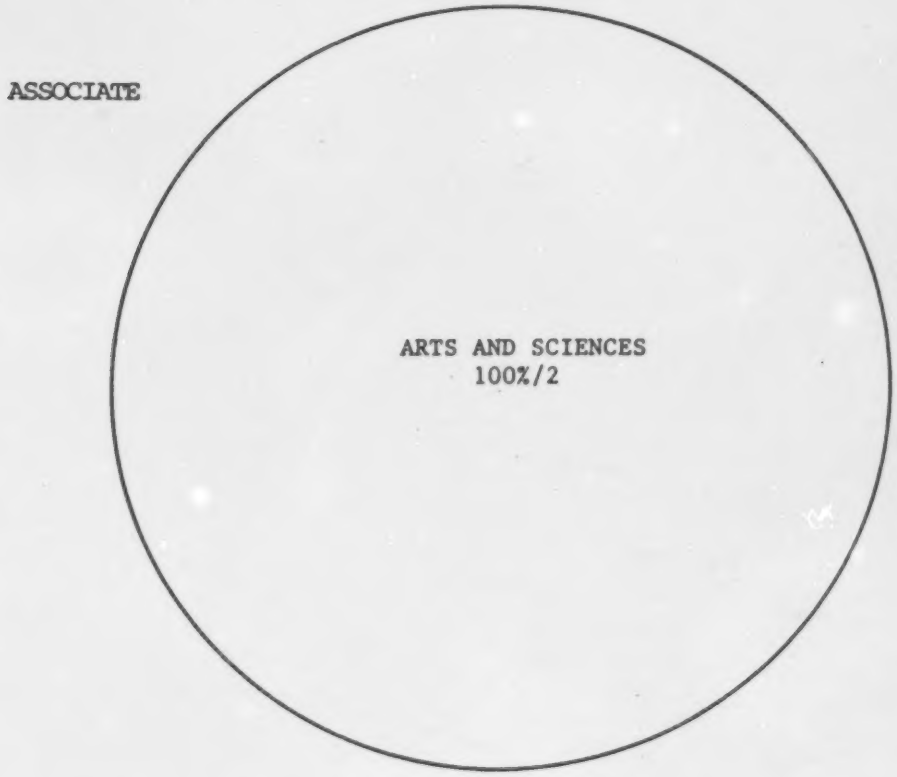


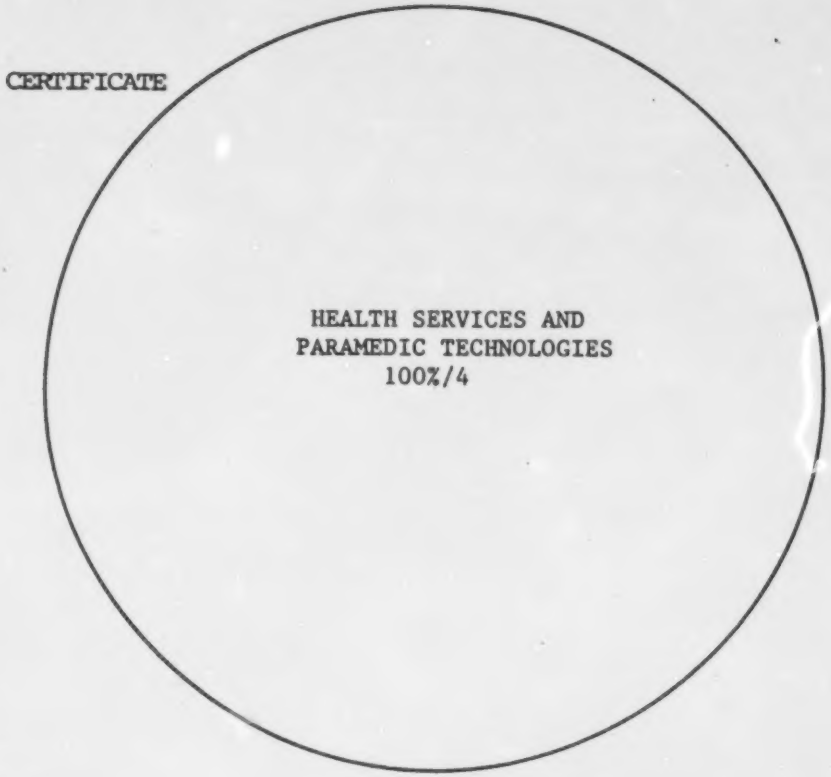
FIGURE 14

SITKA COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



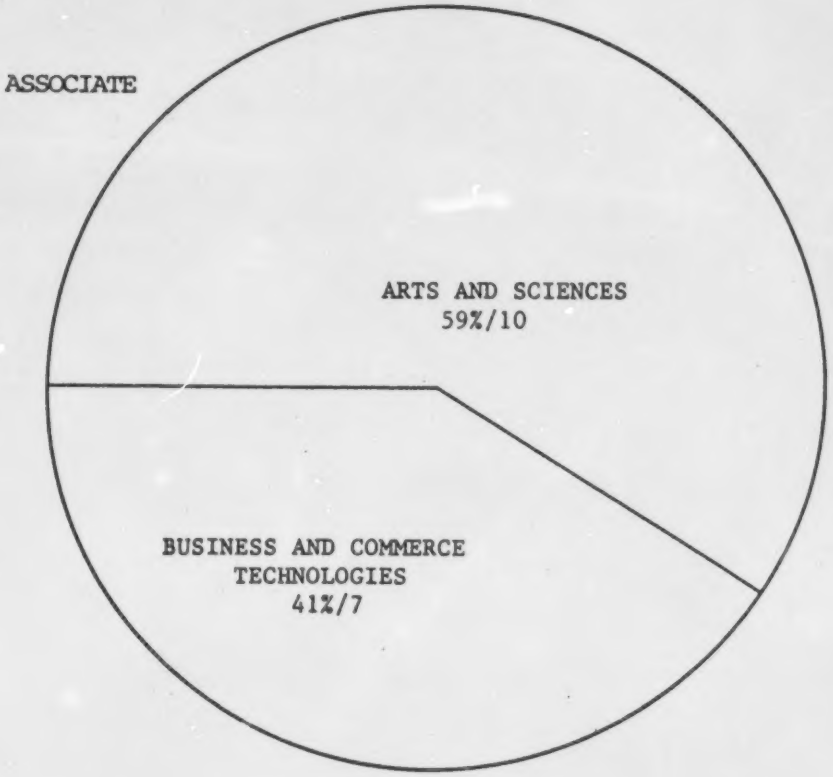


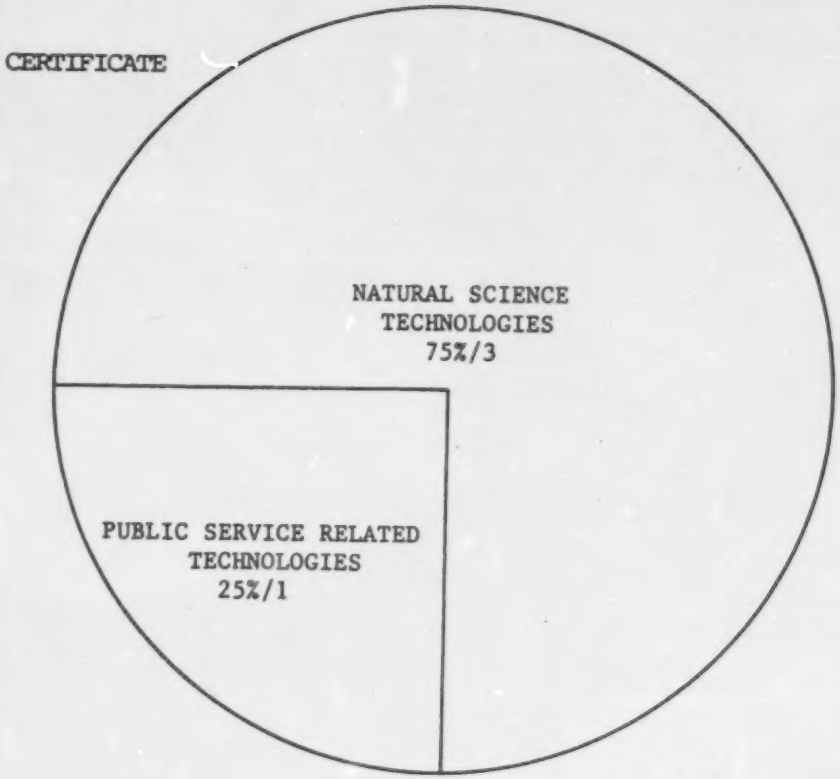
FIGURE 15

TANANA VALLEY COMMUNITY COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)



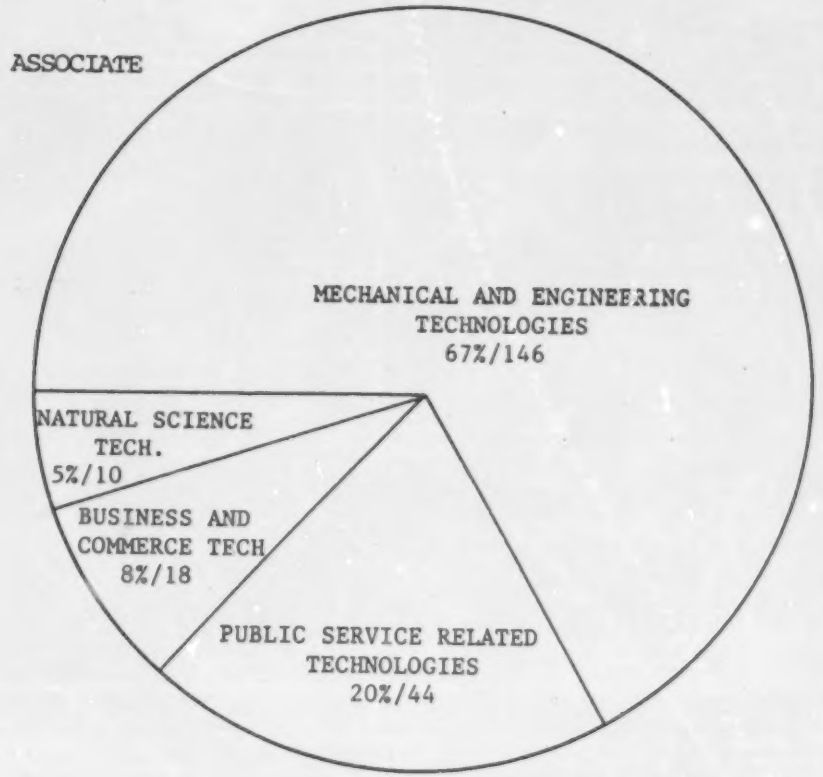


FIGURE 16

ALASKA VOCATIONAL-TECHNICAL CENTER

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

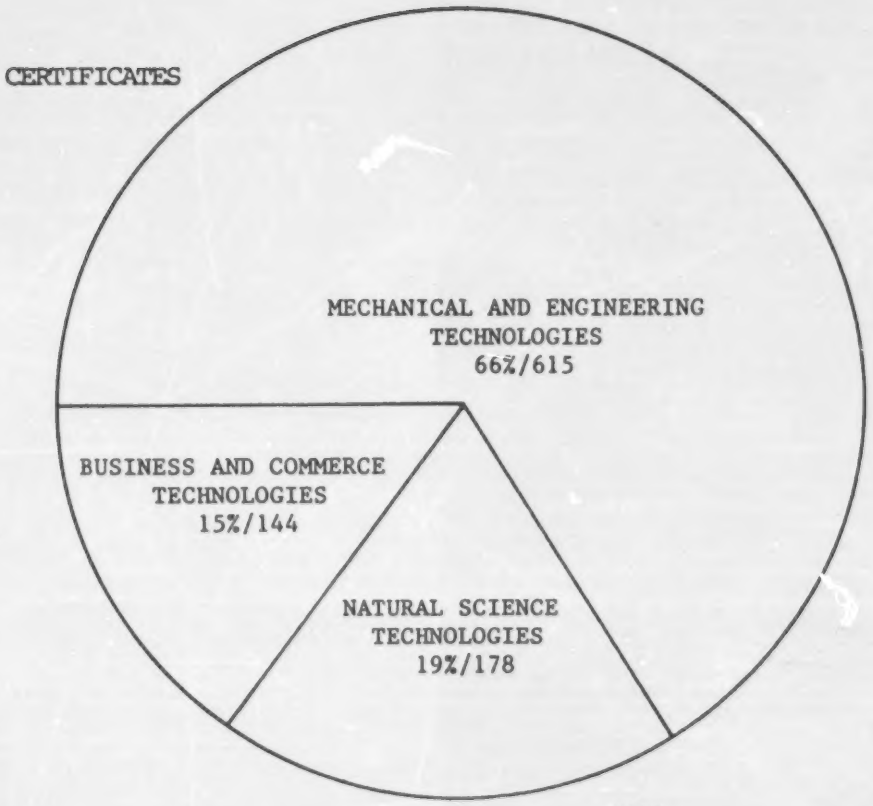


FIGURE 17

KOTZEBUE TECHNICAL CENTER

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATES

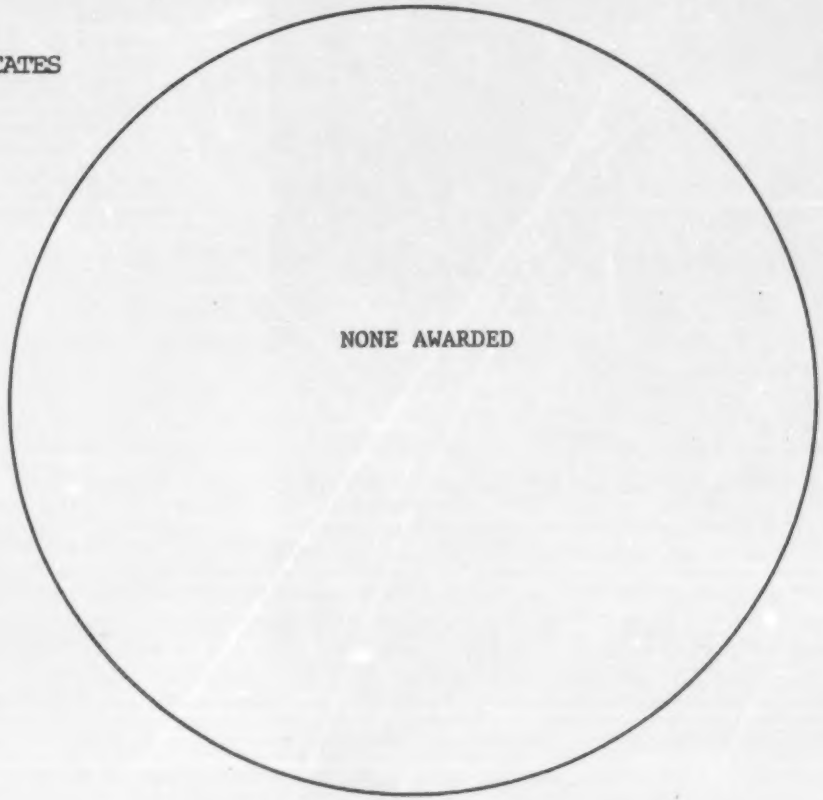


FIGURE 18

ALASKA PACIFIC UNIVERSITY

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

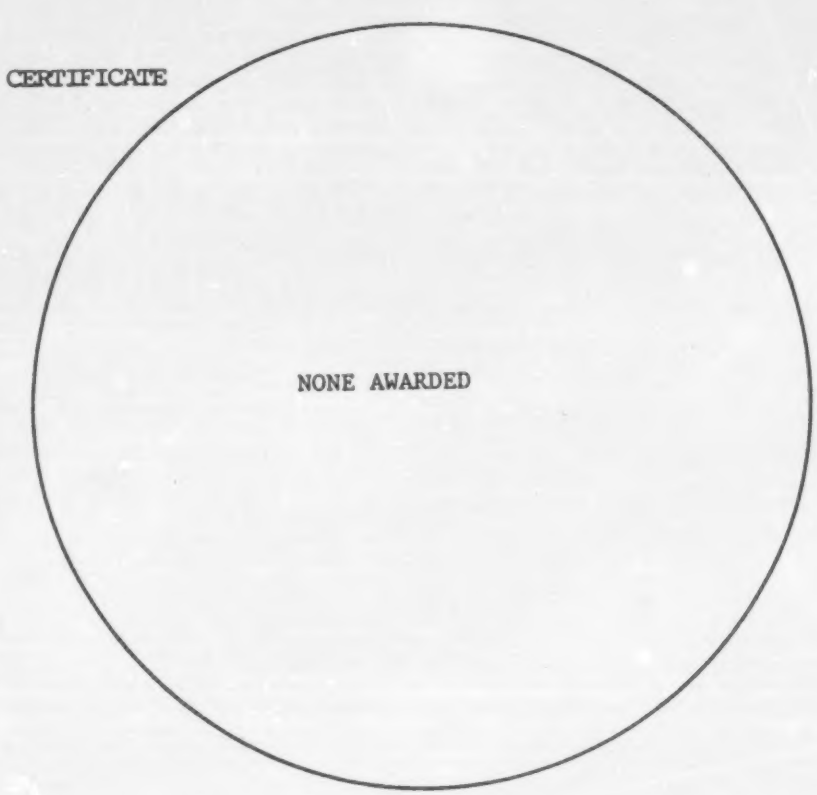


FIGURE 19

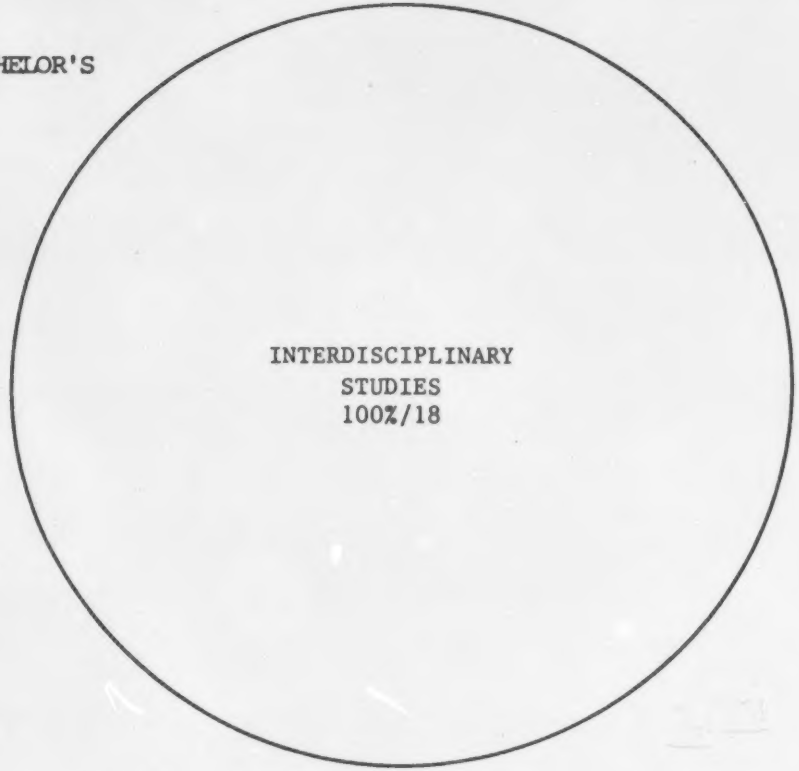
ALASKA PACIFIC UNIVERSITY

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

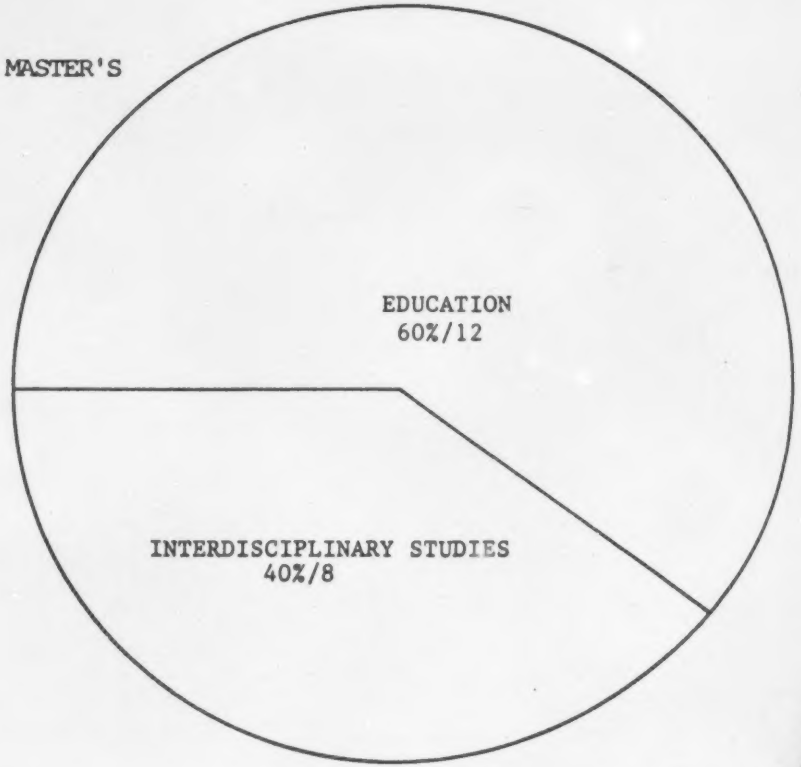
(PERCENTAGE/NUMBER)

BACHELOR'S



79

MASTER'S



80

FIGURE 20

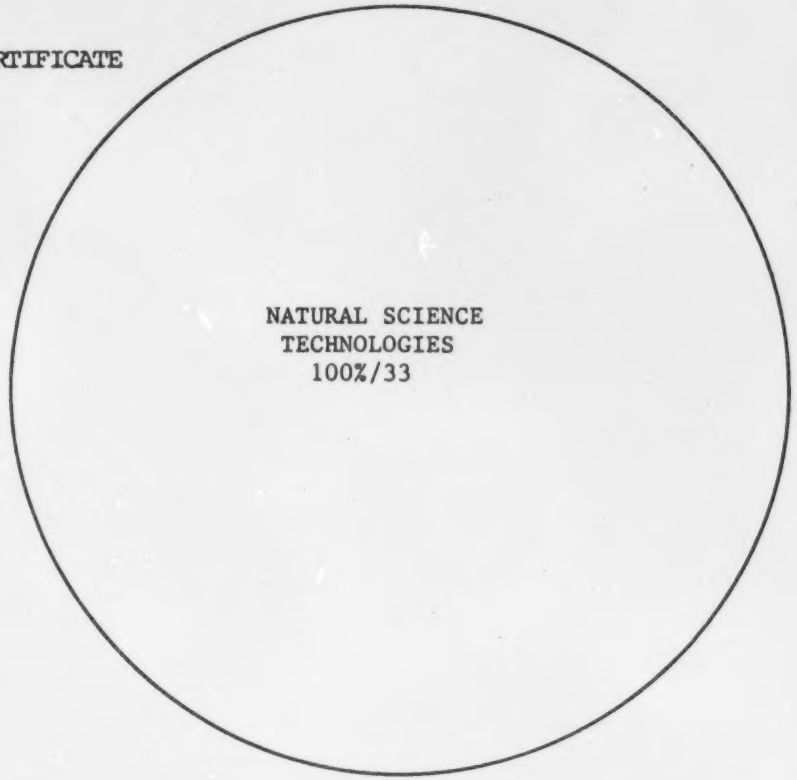
SHELDON JACKSON COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

CERTIFICATE



ASSOCIATE

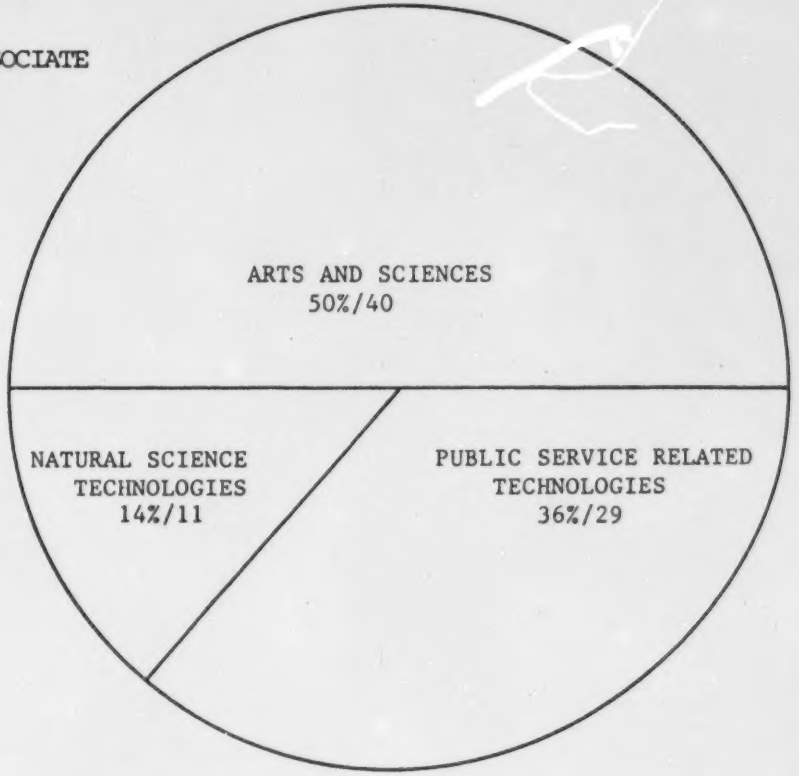


FIGURE 21

SHELDON JACKSON COLLEGE

CERTIFICATES AND DEGREES AWARDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

FIGURE 22

ALASKA BIBLE COLLEGE

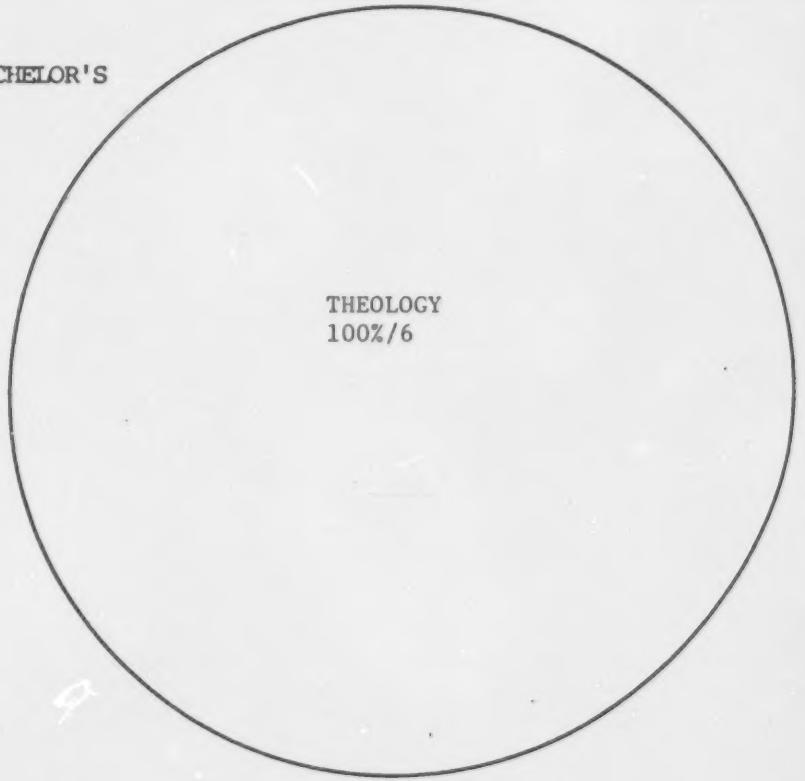
CERTIFICATES AND DEGREES AWAPDED

1978-79 to 1981-82

(PERCENTAGE/NUMBER)

ASSOCIATE

BACHELOR'S



SECTION IV

LISTING OF AWARDS BY PROGRAM AND

THE IDENTIFICATION OF UNDERPRODUCTIVE PROGRAMS

Before the listing of awards by program, some comments about underproductive programs and the entire concept of program review are in order.

Program Review

Program review serves several purposes. A primary purpose is resource reallocation. Others are to provide for quality control, to prevent substandard programs, to encourage good ones, and to assure that the mix of programs represents the most effective use of available resources statewide.[2] The basis for any program review is a clear and specific role and mission statement for each institution.[3]

Program review encompasses a wide variety of activities, but fundamentally it describes a process for the evaluation of programs that are already in existence. The types of criteria used in program review in postsecondary education are several. They include, but are not limited to, the number of graduates from the program over the last several years; the number of students enrolled in the program (entry and dropout rates); the size of classes and the cost of courses identified as elements integral to the program; cost per program graduate; faculty workload; program quality as reflected by its regional or national reputation; faculty qualifications; the level of position achieved by graduates of the program; the economies and improvements in quality to

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[2]Postsecondary Education Program Review: Report of a WICHE-NCHEMS Workshop and Study (Boulder, Colorado: Western Interstate Commission for Higher Education, 1980), pp. 7-8.

[3]Ibid.

be achieved by consolidation and/or elimination of the program; general student interest and demand trends for the program; and the appropriateness of the program to a changed institutional role or mission.

An initial step in program review is the identification of the number of graduates in each program over several years. Degree productivity is the best single index which correlates meaningfully with enrollment of majors in the program, student demand, job market for graduates, and quality of the program.

Since it is not cost-effective to conduct a thorough investigation of every program in a reasonable amount of time, focusing upon degree productivity allows the institution to identify specific programs which may require modification. Identification of those programs that may be underproductive was determined by using the following criteria:[4]

Certificate or Degree	Program was established by:	Number of Graduates over a 4-year period was less than:
Certificate	1978	4
Associate	1977	4
Bachelor's	1975	8
Master's	1977	4
Doctorate	1975	4

Several programs whose graduates are below the minimum criteria are not identified in Tables 8 through 25 as being underproductive for one of two reasons: 1) they have recently been deleted but have had graduates in the last four years or 2) they are new programs that are not subject to review. (Appendix III provides examples of criteria used by other states for the identification of underproductive programs.)

---

[4]It should be noted that the University of Alaska chancellors, with their faculty, are presently in the process of determining which degree programs are undersubscribed. Special review emphasis was placed on programs with five or fewer degrees awarded over the last four years.

It should also be emphasized that the fact that a program falls below the minimum criteria also does not necessarily mean it is underproductive. For instance, a particular low-producing program may satisfy the needs of the state for a certain kind of specialist and it would be unwise to encourage more graduates in a limited job market. A program may provide a substantial number of service courses for another program of high productivity and eliminating the program may serve little purpose. Moreover, particularly at the certificate and associate degree levels, there is evidence that a significant portion of students find gainful employment before completing all of the course work and thus elect not to graduate.

In sum, the following remarks by Donald K. Smith provide a concise and persuasive rationale for program review.

> "We must, as a matter of expressing our commitment to the uses of knowledge for the betterment of the human condition, look steadily and forthrightly at all of our existing programs. And we must be ready and able to make hard decisions about the future, or future direction of those programs."[5]

Table 7 provides a listing of those instructional programs that may be underproductive. Seventy-nine programs were identified. Since Alaska Pacific University was closed during 1976-1977, none of their programs has been in existence long enough to be considered underproductive. It should be noted, however, that of those institutions that have been operating long enough, only Anchorage Community College, Alaska Vocational-Technical Center, and Sheldon Jackson College had no programs that could be considered underproductive.

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[5]Donald K. Smith, Academic Program Audit and Review as a Means of Resource Reallocations, paper presented at a Seminar for State Leaders in Postsecondary Education, December, 1975 (Denver, Colorado: Education Commission of the States, 1975), p. 3.

Table 7
Underproductive Programs

Institutions	Program Taxonomy	Program	Formal Award	Number of Graduates from 1978-79 to 1981-82
UAA	0832	Music Education - Elementary	B	1
UAA	0832	Music Education - Secondary	B	2
UAA	1004	Music Performance	B	1
UAA	1005	Music	B	6
UAA	1905	Chemistry	B	2
UAA	0511	Real Estate	M	2
UAA	0922	Environmental Quality Engineering	M	1
UAA	0922	Environmental Quality Science	M	2
UAA	1507	Creative Writing	M	0
UAF	0307	Russian Studies	B	1
UAF	0399	Northern Studies	B	3
UAF	0823	Early Childhood Education	B	6
UAF	0832	Music Education	B	2
UAF	0832	Music Education - Elementary	B	1
UAF	0832	Music Education - Secondary	B	5
UAF	1004	Music Performance	B	5
UAF	1007	Theater	B	6
UAF	1101	Foreign Languages	B	4
UAF	1199	Inupiaq Eskimo	B	3
UAF	1199	Yupik Eskimo	B	3
UAF	1505	Linguistics	B	1
UAF	1506	Speech Communication	B	6
UAF	1509	Philosophy	B	4
UAF	1902	Applied Physics	B	0
UAF	1917	Earth Science	B	3
UAF	2299	Geography and Regional Development	B	0
UAF	4902	General Science	B	6
UAF	4903	Humanities	B	6
UAF	0802	Elementary Education	M	2
UAF	0803	Secondary Education	M	2
UAF	0826	College Student Personnel Administration	M	3
UAF	0826	Guidance & Counseling	M	3
UAF	0909	Electrical Engineering	M	0
UAF	0913	Science Management	M	3
UAF	0918	Mining Engineering	M	2
UAF	0922	Environmental Quality Engineering	M	2
UAF	0922	Environmental Quality Science	M	3
UAF	0999	Arctic Engineering	M	1
UAF	1701	Mathematics	M	2
UAF	1902	Physics	M	2
UAF	4902	General Science	M	1

Institutions	Program Taxonomy	Program	Formal Award	Number of Graduates from 1978-79 to 1981-82
UAF	0107	Wildlife Management	D	0
UAF	1902	Physics	D	0
UAF	1999	Geology and Geophysics	D	2
UAJ	5002	Accounting Clerk	C	0
UAJ	5307	Diesel Mechanics	C	0
UAJ	5317	Marine Carpentry	C	0
UAJ	5317	Woods/Construction	C	0
UAJ	5399	Marine Engine Repair	C	0
UAJ	5503	Early Childhood Education	C	1
UAJ	5399	Power Technology	A	0
UAJ	5406	Marine Technology	A	2
UAJ	0506	Business Administration	M	2
UAJ	0913	Science Management	M	0
KPCC	5600	Business Administration	A	0
KCC	5005	Clerk Typist	C	0
KCC	5005	Stenographer	C	0
KCC	5307	Diesel Technology	A	2
KOCC	5005	Office Occupations	C	0
KOCC	5405	Home Economics	C	0
KOCC	5005	Office Occupations	A	1
KOCC	5499	Commercial Fishing	A	0
KOCC	5499	Seafood Processing	A	0
KOCC	5600	Justice	A	2
KUCC	5299	Community Health Practitioner	A	1
KUCC	5600	Yupik Language	A	0
MSCC	5005	Secretarial Studies	A	0
NWCC	5001	Business	C	0
NWCC	5600	Education	C	0
NWCC	5600	Art	A	0
SCC	5002	Accounting Clerk	C	0
SCC	5005	Clerk Typist	C	0
TVCC	5005	Office Occupations	C	0
TVCC	5404	Food Service Baking Technology	C	3
TVCC	5507	Fire Science Technology	C	1
TVCC	5004	Business Supervision	A	2
TVCC	5303	Graphic Arts & Design	A	2
TVCC	5405	Family Living - Management	A	0
ABC	2301	Theological Professions, General	B	6

Tables 8 through 25 provide a detailed listing of all programs leading to a formal award for each postsecondary institution from 1978-79 to 1981-82. Those programs that may be underproductive are shaded.

On December 11, 1981 the Board of Regents of the University of Alaska approved a change in the Associate of Arts degree which mandated one common set of distribution requirements (courses required for completion of the A.A. degree) throughout the system. This resulted in the deletion of several A.A. degree programs with particular areas of emphasis such as art, history, mathematics and psychology.

TABLE 8
Degrees Awarded
UNIVERSITY OF ALASKA - ANCHORAGE

Level: Bachelor's

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	0	9	7	8	24
	TOTAL	0	9	7	8	24
0500	BUSINESS & MANAGEMENT					
0501	Business	0	0	0	2	2
0506	Business Administration	34	35	28	46	143
	TOTAL	34	35	28	48	145
0600	COMMUNICATIONS					
0699	Journalism & Public Communications	2	3	1	8	14
	TOTAL	2	3	1	8	14
0700	COMPUTER & INFORMATION SCIENCES					
0701	Computer Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
0800	EDUCATION					
0801	Education (deleted)	0	2	1	0	3
0802	Elementary Education	22	14	19	17	72
0803	Secondary Education	2	2	4	5	13
0832	Music Education - Elementary	0	0	0	1	1
0832	Music Education - Secondary	0	0	0	2	2
0835	Physical Education	0	0	0	3	3
	TOTAL	24	18	24	28	94
0900	ENGINEERING					
0908	Civil Engineering	0	0	0	0	0
	TOTAL	0	0	0	0	0
1000	FINE & APPLIED ARTS					
1002	Art	6	12	5	10	33
1004	Music Performance	0	1	0	0	1
1005	Music	2	0	1	3	6
1007	Theater	0	0	2	0	2
	TOTAL	8	13	8	13	42

may be underproductive

TABLE 8 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - ANCHORAGE

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
1200	HEALTH PROFESSIONS					
1203	Nursing Science	21	35	28	49	133
1223	Medical Technology	0	0	1	1	2
	TOTAL	21	35	29	50	135
1500	LETTERS					
1501	English	6	5	1	9	21
	TOTAL	6	5	1	9	21
1700	MATHEMATICS					
1701	Mathematics	2	4	6	5	17
	TOTAL	2	4	6	5	17
1900	PHYSICAL SCIENCE					
1905	Chemistry	0	1	0	1	2
	TOTAL	0	1	0	1	2
2000	PSYCHOLOGY					
2001	Psychology	20	13	21	12	66
	TOTAL	20	13	21	12	66
2100	PUBLIC AFFAIRS & SCIENCES					
2104	Social Work	2	2	12	11	27
2105	Justice	0	7	7	7	21
	TOTAL	2	9	19	18	48
2200	SOCIAL SCIENCES					
2202	Anthropology	5	7	3	8	23
2204	Economics	2	2	2	3	9
2205	History	9	4	4	2	19
2207	Political Science	8	1	4	8	21
2208	Sociology	4	10	4	5	23
	TOTAL	28	24	17	26	95

may be underproductive

TABLE 8 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - ANCHORAGE

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
4900	INTERDISCIPLINARY STUDIES					
4902	Natural Science	0	3	3	4	10
4999	Interdisciplinary Studies	11	0	2	1	14
	TOTAL	11	3	5	5	24
	OTHER	8	0	0	0	8
	TOTAL	8	0	0	0	8
	TOTAL BACHELOR'S DEGREES AWARDED	166	172	166	231	735

Level: Master's

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0200	ARCHITECTURE & ENVIRONMENTAL DESIGN					
0206	Planning	0	0	0	0	0
	TOTAL	0	0	0	0	0
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	1	4	6	5	16
0511	Real Estate	0	0	1	1	2
0515	Human Resources Mgmt. (deleted)	0	0	0	2	2
	TOTAL	1	4	7	8	20
0800	EDUCATION					
0801	Education	44	53	38	35	170
	TOTAL	44	53	38	35	170

may be underproductive

TABLE 8 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - ANCHORAGE

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0900	ENGINEERING					
0908	Civil Engineering	0	2	3	2	7
0913	Engineering Management	2	5	14	3	24
0913	Science Management	3	3	0	0	6
0922	Environmental Quality Engineering	0	1	0	0	1
0922	Environmental Quality Science	0	0	1	1	2
0999	Arctic Engineering	0	0	0	2	2
	TOTAL	5	11	18	8	42
1200	HEALTH PROFESSIONS					
1203	Nursing Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
1500	LETTERS					
1501	English	0	5	1	3	9
1507	Creative Writing	0	0	0	0	0
	TOTAL	0	5	1	3	9
2000	PSYCHOLOGY					
2004	Counseling Psychology	6	4	6	13	29
	TOTAL	6	4	6	13	29
2100	PUBLIC AFFAIRS & SERVICES					
2102	Public Administration	15	4	7	6	32
	TOTAL	15	4	7	6	32
4900	INTERDISCIPLINARY STUDIES					
4999	Interdisciplinary Studies	1	2	1	0	4
	TOTAL	1	2	1	0	4
	TOTAL MASTER'S DEGREES AWARDED	72	83	78	73	306

may be underproductive

TABLE 9
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Associate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5600	ARTS & SCIENCES					
5600	Chemical Science	2	0	1	2	5
5600	Computer Information Systems	3	3	1	13	20
5600	Justice	0	2	4	10	16
5600	Liberal Arts	0	1	4	1	6
5600	Science	3	3	7	4	17
5600	General Program	9	5	4	7	25
	TOTAL	17	14	21	37	89
	OTHER	0	1	1	0	2
	TOTAL	0	1	1	0	2
	TOTAL ASSOCIATE DEGREES AWARDED	17	15	22	37	91

Level: Bachelor's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries Science	0	4	2	5	11
0107	Wildlife Management	6	8	13	7	34
0115	Natural Resources Management	5	13	9	10	37
	TOTAL	11	25	24	22	82
0300	AREA STUDIES					
0307	Russian Studies	0	1	0	0	1
0399	Northern Studies	0	0	3	0	3
	TOTAL	0	1	3	0	4
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	20	30	33	23	106
	TOTAL	20	30	33	23	106
0500	BUSINESS & MANAGEMENT					
0501	Business (deleted)	2	3	4	4	13
0502	Accounting	6	13	14	14	47
0506	Business Administration	7	8	24	27	66
	TOTAL	15	24	42	45	126

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0600	COMMUNICATIONS					
0602	Journalism	9	12	12	6	39
	TOTAL	9	12	12	6	39
0700	COMPUTER & INFORMATION SERVICES					
0701	Computer Science	0	0	0	1	1
	TOTAL	0	0	0	1	1
0800	EDUCATION					
0801	Education	9	0	1	0	10
0802	Elementary Education	14	23	25	21	83
0803	Secondary Education	0	3	5	5	13
0823	Early Childhood Education	0	3	2	1	6
0832	Music Education	0	0	2	0	2
0832	Music Education - Elementary	0	0	0	1	1
0832	Music Education - Secondary	0	0	0	5	5
0835	Physical Education	3	1	6	4	14
0899	Cross-Cultural Education	0	3	2	7	12
	TOTAL	26	33	43	44	146
0900	ENGINEERING					
0907	Petroleum Engineering	0	0	0	5	5
0908	Civil Engineering	16	13	16	17	62
0909	Electrical Engineering	2	5	10	10	27
0910	Mechanical Engineering	2	5	4	9	20
0911	Geological Engineering	3	7	5	4	19
0918	Mining Engineering	5	2	3	5	15
	TOTAL	28	32	38	50	148
1000	FINE & APPLIED ARTS					
1002	Art	7	7	8	8	30
1004	Music Performance	0	0	4	1	5
1005	Music	4	5	1	0	10
1007	Theater	0	2	3	1	6
	TOTAL	11	14	16	10	51

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
1100	FOREIGN LANGUAGES					
1101	Foreign Languages	0	0	2	2	4
1199	Inupiaq Eskimo	0	2	1	0	3
1199	Yupik Eskimo	0	1	0	2	3
	TOTAL	0	3	3	4	10
1500	LETTERS					
1501	English	2	3	9	4	18
1505	Applied Linguistics	0	0	0	0	0
1505	Linguistics	0	0	0	1	1
1506	Speech Communication	2	1	2	1	6
1509	Philosophy	3	1	0	0	4
	TOTAL	7	5	11	6	29
1700	MATHEMATICS					
1701	Mathematics	6	5	5	5	21
	TOTAL	6	5	5	5	21
1900	PHYSICAL SCIENCE					
1902	Applied Physics	0	0	0	0	0
1902	Physics	3	3	3	3	12
1905	Chemistry	4	3	4	1	12
1914	Geology	8	4	7	5	24
1917	Earth Science	0	1	1	1	3
	TOTAL	15	11	15	10	51
2000	PHYCHOLOGY					
2001	Psychology	4	5	5	10	24
	TOTAL	4	5	5	10	24
2100	PUBLIC AFFAIRS & SERVICES					
2105	Justice	0	4	4	4	12
	TOTAL	0	4	4	4	12

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
2200	SOCIAL SCIENCES					
2202	Anthropology	6	2	7	2	17
2204	Economics	3	2	1	4	10
2205	History	5	1	3	6	15
2206	Geography	5	2	4	4	15
2207	Political Science	1	4	8	5	18
2208	Sociology	3	9	4	5	21
2212	Alaska Native Studies	0	0	0	0	0
2299	Geography and Regional Dev.	0	0	0	0	0
	TOTAL	23	20	27	26	96
4900	INTERDISCIPLINARY STUDIES					
4902	General Science	1	3	2	0	6
4903	Humanities	3	0	0	3	6
4999	Interdisciplinary Studies	0	0	0	0	0
	TOTAL	4	3	2	3	12
	OTHER	8	5	0	0	13
	TOTAL	8	5	0	0	13
	TOTAL BACHELOR'S DEGREES AWARDED	187	232	283	269	971

Level: Master's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Wildlife Management	4	6	7	7	24
0115	Natural Resources Management	2	0	2	5	9
0199	Fisheries Biology	0	1	3	1	5
	TOTAL	6	7	12	13	38
0400	BIOLOGICAL SCIENCES					
0401	Biology	1	9	2	4	16
0402	Botany	3	1	0	0	4
0407	Zoology	1	3	3	1	8
0418	Marine Biology	0	0	1	0	1
	TOTAL	5	13	6	5	29

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	10	6	8	12	36
	TOTAL	10	6	8	12	36
0800	EDUCATION					
0801	Education	24	17	31	11	83
0802	Elementary Education	0	0	0	2	2
0803	Secondary Education	0	0	0	2	2
0826	College Student Personnel Admin.	0	0	0	3	3
0826	Guidance and Counseling	0	0	0	3	3
0827	Public School Administration	0	0	0	6	6
0839	Vocational Education	0	0	0	2	2
0899	Cross-Cultural Education	0	0	1	2	3
	TOTAL	24	17	32	31	104
0900	ENGINEERING					
0907	Petroleum Engineering	0	0	0	0	0
0908	Civil Engineering	1	2	5	3	11
0909	Electrical Engineering	0	0	0	0	0
0910	Mechanical Engineering	0	0	0	0	0
0911	Geological Engineering	0	0	0	0	0
0913	Engineering Management	6	1	1	0	8
0913	Science Management	0	2	1	0	3
0918	Mineral Preparation Engineering	2	1	0	1	4
0918	Mining Engineering	0	1	1	0	2
0922	Environmental Quality Engineering	0	0	0	2	2
0922	Environmental Quality Science	0	2	1	0	3
0999	Arctic Engineering	0	0	0	1	1
	TOTAL	9	9	9	7	34
1000	FINE & APPLIED ARTS					
1005	Music	0	2	1	2	5
	TOTAL	0	2	1	2	5
1500	LETTERS					
1501	English	1	0	5	4	10
	TOTAL	1	0	5	4	10

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
1700	MATHEMATICS					
1701	Mathematics	1	1	0	0	2
	TOTAL	1	1	0	0	2
1900	PHYSICAL SCIENCES					
1902	Physics	1	0	0	1	2
1905	Chemistry	1	2	0	2	5
1913	Atmospheric Science	0	0	1	1	2
1919	Oceanography	2	5	7	3	17
1999	Geology and Geophysics	7	6	3	8	24
1999	Space Physics	0	1	2	3	6
	TOTAL	11	14	13	18	56
2200	SOCIAL SCIENCES					
2202	Anthropology	3	0	7	3	13
2299	Resource Economics	0	0	0	0	0
	TOTAL	3	0	7	3	13
4900	INTERDISCIPLINARY STUDIES					
4902	General Science	1	0	0	0	1
4999	Interdisciplinary Studies	0	0	0	1	1
	TOTAL	1	0	0	1	2
	OTHER	2	4	1	0	7
	TOTAL	2	4	1	0	7
	TOTAL MASTER'S DEGREES AWARDED	73	73	94	96	336

Level: Doctorate

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Wildlife Management	0	0	0	0	0
	TOTAL	0	0	0	0	0

may be underproductive

TABLE 9 (continued)
Degrees Awarded
UNIVERSITY OF ALASKA - FAIRBANKS

Level: Doctorate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0400	BIOLOGICAL SCIENCES					
0401	Biological Science	2	0	1	1	4
	TOTAL	2	0	1	1	4
1900	PHYSCIAL SCIENCES					
1902	Physics	0	0	0	0	0
1913	Atmospheric Science	0	0	0	0	0
1939	Geology and Geophysics	2	0	0	0	2
1999	Space Physics	0	0	1	0	1
	TOTAL	2	0	1	0	3
4990	INTERDISCIPLINARY STUDIES					
4999	Interdisciplinary Studies	1	0	0	5	6
	TOTAL	1	0	0	5	6
	TOTAL DOCTORAL DEGREES AWARDED	5	0	2	6	13

may be underproductive

TABLE 10
Certificates and Degrees Awarded
UNIVERSITY OF ALASKA - JUNEAU

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Clerk	0	0	0	0	0
5005	Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5100	DATA PROCESSING TECHNOLOGIES					
5101	Data Processing	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5306	Automotive Technology	0	0	0	5	5
5307	Diesel Mechanics	0	0	0	0	0
5317	Marine Carpentry	0	0	0	0	0
5317	Woods/Construction	0	0	0	0	0
5399	Marine Engine Repair	0	0	0	0	0
	TOTAL	0	0	0	5	5
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Education	0	0	0	1	1
	TOTAL	0	0	0	1	1
	OTHER	1	0	0	0	1
	TOTAL CERTIFICATES AWARDED	1	0	0	6	7

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Administration	0	0	0	0	0
5005	Office Occupations (deleted)	2	0	0	1	3
	TOTAL	2	0	0	1	3
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5317	Construction Technology	2	0	0	3	5
5399	Power Technology	0	0	0	0	0
	TOTAL	2	0	0	3	5

may be underproductive

TABLE 10 (continued)
Certificates and Degrees Awarded
UNIVERSITY OF ALASKA - JUNEAU

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5400	NATURAL SCIENCE TECHNOLOGIES					
5406	Marine Technology	1	0	0	1	2
	TOTAL	1	0	0	1	2
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Education	1	2	0	2	5
5599	Paralegal Studies	0	0	1	1	2
	TOTAL	1	2	1	3	7
5600	ARTS & SCIENCES					
5600	General Program	13	22	11	12	58
	TOTAL	13	22	11	12	58
	TOTAL ASSOCIATE DEGREES AWARDED	19	24	12	20	75

Level: Bachelor's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	2	2	2	6
	TOTAL	0	2	2	2	6
0400	BIOLOGICAL SCIENCES					
0401	Biology	0	1	2	2	5
	TOTAL	0	1	2	2	5
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	0	1	3	1	5
	TOTAL	0	1	3	1	5
0800	EDUCATION					
0802	Elementary Education	7	1	2	3	13
0803	Secondary Education	0	0	1	2	3
	TOTAL	7	1	3	5	16

may be underproductive

TABLE 10 (continued)
Certificates and Degrees Awarded
UNIVERSITY OF ALASKA - JUNEAU

Level: Bachelor's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
1000	FINE & APPLIED ARTS					
1005	Music	0	0	0	0	0
	TOTAL	0	0	0	0	0
2200	SOCIAL SCIENCES					
2207	Government	0	0	0	0	0
	TOTAL	0	0	0	0	0
4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	0	0	7	7
4999	Interdisciplinary Studies	0	1	0	0	1
	TOTAL	0	1	0	7	8
	OTHER	2	0	0	0	2
	TOTAL	2	0	0	0	2
	TOTAL BACHELOR'S DEGREES AWARDED	9	6	10	17	42

Level: Master's

0100	AGRICULTURE & NATURAL RESOURCES					
0107	Fisheries	0	3	1	3	7
	TOTAL	0	3	1	3	7
0500	BUSINESS & MANAGEMENT					
0506	Business Administration	0	1	1	0	2
	TOTAL	0	1	1	0	2
0800	EDUCATION					
0801	Education	16	15	6	11	48
0839	Vocational Education	0	0	0	0	0
	TOTAL	16	15	6	11	48

may be underproductive

TABLE 10 (continued)
Certificates and Degrees Awarded
UNIVERSITY OF ALASKA - JUNEAU

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
0900	ENGINEERING					
0913	Engineering Management	2	0	4	1	7
0913	Science Management	0	0	0	0	0
	TOTAL	2	0	4	1	7
2100	PUBLIC AFFAIRS & SERVICES					
2102	Public Administration	3	7	2	2	14
	TOTAL	3	7	2	2	14
	OTHER	2	0	0	0	2
	TOTAL	2	0	0	0	2
	TOTAL MASTER'S DEGREES AWARDED	23	26	14	17	80

may be underproductive

TABLE 11
Certificates and Degrees Awarded
ANCHORAGE COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	24	0	0	0	24
	TOTAL	24	0	0	0	24
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5202	Dental Assisting	0	12	12	8	32
5209	Practical Nursing	0	16	15	8	39
	TOTAL	0	28	27	16	71
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Aviation Maintenance Tech	0	10	10	0	20
5304	Architectural Drafting	0	4	0	1	5
5306	Automotive Technology	9	2	3	2	16
5307	Diesel Technology	1	8	9	3	21
5310	Electronics Technology	11	12	2	4	29
5399	Civil Engineering Drafting	0	12	0	1	13
5399	Mechanical & Electrical Drafting	25	1	0	0	26
5399	Structural Drafting	0	9	0	3	12
	TOTAL	46	58	24	14	142
	TOTAL CERTIFICATES AWARDED	70	86	51	30	237

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business Administration	0	31	27	43	101
5002	Accounting	12	11	6	24	53
5005	Office Occupations	9	13	4	9	35
	TOTAL	21	55	37	76	189
5100	DATA PROCESSING TECHNOLOGIES					
5101	Computer Information Systems	1	11	5	14	31
	TOTAL	1	11	5	14	31

may be underproductive

TABLE 11 (continued)
Certificates and Degrees Awarded
ANCHORAGE COMMUNITY COLLEGE

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5200	Paramedic Technology (deleted)	5	5	1	0	11
5202	Dental Assisting	3	4	3	5	15
5203	Dental Hygiene	6	8	10	7	31
5205	Medical Laboratory Technology	9	4	10	11	34
5208	Nursing Science	30	23	19	36	108
5214	Medical Assisting	7	2	1	0	10
	TOTAL	60	46	44	59	209
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Air Traffic Control	0	8	6	5	19
5302	Aviation Administration	0	4	3	2	9
5302	Aviation Maintenance Technology	18	3	1	2	24
5302	Professional Piloting	0	13	12	10	35
5306	Automotive Technology	3	4	2	3	12
5307	Diesel Technology	1	3	3	5	12
5308	Welding Technology	0	1	3	2	6
5309	Surveying Technology	5	5	8	5	23
5310	Electronics Technology	11	17	12	12	52
5399	Architectural & Eng. Drafting Tech.	6	12	4	8	30
	TOTAL	44	70	54	54	222
5400	NATURAL SCIENCE TECHNOLOGIES					
5404	Food Services Technology	5	1	1	1	8
5405	Home Economics	4	2	3	5	14
	TOTAL	9	3	4	6	22
5500	PUBLIC SERVICES RELATED TECHNOLOGIES					
5507	Fire Science	8	8	5	5	26
	TOTAL	8	8	5	5	26
5600	ARTS & SCIENCES					
5600	General Program	83	68	90	90	331
	TOTAL	83	68	90	90	331
	TOTAL ASSOCIATE DEGREES AWARDED	226	261	239	304	1,030

may be underproductive

TABLE 12
Certificates and Degrees Awarded
KENAI PENINSULA COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	10	12	9	5	36
	TOTAL	10	12	9	5	36
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5399	Petroleum Technology	11	7	6	6	30
	TOTAL	11	7	6	6	30
	TOTAL CERTIFICATES AWARDED	21	19	15	11	66

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	2	6	5	1	14
	TOTAL	2	6	5	1	14
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5314	Industrial Proc. Instrumentation	0	3	10	8	21
5399	Industrial Electronics	0	3	4	2	9
5399	Petroleum Engineering Aide	0	0	3	2	5
5399	Petroleum Technology	4	22	37	36	99
	TOTAL	4	28	54	48	134
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forest Technology	0	0	0	0	0
	TOTAL	0	0	0	0	0
5600	ARTS & SCIENCE					
5600	Business Administration	0	0	0	0	0
5600	General Program	9	8	21	19	57
	TOTAL	9	8	21	19	57
	TOTAL ASSOCIATE DEGREES AWARDED	15	42	80	68	205

may be underproductive

TABLE 13
Certificates and Degrees Awarded
KETCHIKAN COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Clerk Typist	0	0	0	0	0
5005	Stenographer	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5307	Diesel Technology	3	3	4	5	15
	TOTAL	3	3	4	5	15
	TOTAL CERTIFICATES AWARDED	3	3	4	5	15

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Secretarial Science	2	0	2	0	4
	TOTAL	2	0	2	0	4
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5307	Diesel Technology	1	1	0	0	2
	TOTAL	1	1	0	0	2
5600	ARTS & SCIENCES					
5600	General Program	2	5	10	5	22
	TOTAL	2	5	10	5	22
	TOTAL ASSOCIATE DEGREES AWARDED	5	6	12	5	28

may be underproductive

TABLE 14
Certificates & Degrees Awarded
KODIAK COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5400	NATURAL SCIENCE TECHNOLOGIES					
5405	Home Economics	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	0	0	0	0

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	0	0	0	0
5001	Business Administration	0	0	2	4	6
5005	Office Occupations	0	1	0	0	1
	TOTAL	0	1	2	4	7
5400	NATURAL SCIENCE TECHNOLOGIES					
5499	Commercial Fishing	0	0	0	0	0
5499	Seafood Processing	0	0	0	0	0
	TOTAL	0	0	0	0	0
5600	ARTS & SCIENCE					
5600	Justice	0	2	0	0	2
5600	General Program	1	7	3	8	19
	TOTAL	1	9	3	8	21
	TOTAL ASSOCIATE DEGREES AWARDED	1	10	5	12	28

may be underproductive

TABLE 15
Certificates and Degrees Awarded
KUSKOKWIM COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5004	Business Mgmt. Tech. (deleted)	1	0	0	0	1
5005	Office Occupations (deleted)	0	3	0	0	3
	TOTAL	1	3	0	0	4
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5299	Community Health Aide	11	20	6	5	42
	TOTAL	11	20	6	5	42
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5317	Building Maintenance Tech.	0	0	1	0	1
	TOTAL	0	0	1	0	1
	TOTAL CERTIFICATES AWARDED	12	23	7	5	47

Level: Associate

5200	HEALTH SERVICE & PARAMEDIC TECH.					
5299	Community Health Practitioner	0	0	1	0	1
	TOTAL	0	0	1	0	1
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Education	2	1	6	0	9
	TOTAL	2	1	6	0	9
5600	ARTS & SCIENCES	0	0	0	0	0
5600	Yupik Language	14	8	1	9	32
5600	General Program					
	TOTAL	14	8	1	9	32
	TOTAL ASSOCIATE DEGREES AWARDED	16	9	8	9	42

may be underproductive

TABLE 16
Certificates and Degrees Awarded
MATANUSKA-SUSITNA COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5310	Electronics Technology	0	7	5	5	17
5317	Heating Technology	2	0	4	3	9
5317	Refrigeration Technology	0	11	10	11	32
	TOTAL	2	18	19	19	58
	TOTAL CERTIFICATES AWARDED	2	18	19	19	58

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business Administration	0	0	3	4	7
5002	Accounting	2	1	1	2	6
5005	Secretarial Studies	0	0	0	0	0
	TOTAL	2	1	4	6	13
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Professional Piloting	2	0	1	1	4
5310	Electronics Technology	0	2	3	2	7
5317	Refrigeration & Heating Tech.	1	0	2	2	5
	TOTAL	3	2	6	5	16
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5599	Justice	7	5	1	0	13
	TOTAL	7	5	1	0	13
5600	ARTS & SCIENCES					
5600	General Program	3	6	13	16	38
	TOTAL	3	6	13	16	38
	TOTAL ASSOCIATE DEGREES AWARDED	15	14	24	27	80

may be underproductive

TABLE 17
Certificates and Degrees Awarded
NORTHWEST COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	0	0	0	0
	TOTAL	0	0	0	0	0
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5299	Health Science	11	0	0	0	11
	TOTAL	11	0	0	0	11
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5309	Surveying	0	0	0	0	0
5317	Vocational and Tech. Education	6	0	0	0	6
	TOTAL	6	0	0	0	6
5600	ARTS & SCIENCES					
5600	Education	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	17	0	0	0	17

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business	0	2	1	2	5
	TOTAL	0	2	1	2	5
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5299	Health Science	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5317	Vocational and Tech. Education	0	0	0	0	0
	TOTAL	0	0	0	0	0

may be underproductive

TABLE 17 (continued)
Certificates and Degrees Awarded
NORTHWEST COMMUNITY COLLEGE

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5600	ARTS & SCIENCES	0	0	0	0	0
5600	Art	0	2	0	0	2
5600	Education	3	1	0	0	4
5600	General Program					
	TOTAL	3	3	0	0	6
	TOTAL ASSOCIATE DEGREES AWARDED	3	5	1	2	11

may be underproductive

TABLE 18
Certificates and Degrees Awarded
PRINCE WILLIAM SOUND COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000 5005	BUSINESS & COMMERCE TECHNOLOGIES Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	0	0	0	0

Level: Associate

5000 5005	BUSINESS & COMMERCE TECHNOLOGIES Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5500 5599	PUBLIC SERVICE RELATED TECHNOLOGIES Developmental Disabilities	0	0	0	0	0
	TOTAL	0	0	0	0	0
5600 5600	ARTS & SCIENCES General Program	0	0	1	1	2
	TOTAL	0	0	1	1	2
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	1	1	2

may be underproductive

TABLE 19
Certificates and Degrees Awarded
SITKA COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Clerk	0	0	0	0	0
5005	Clerk Typist	0	0	0	0	0
	TOTAL	0	0	0	0	0
5200	HEALTH SERVICES & PARAMEDIC TECH.					
5209	Nursing - Nurses Aide	0	4	0	0	4
	TOTAL	0	4	0	0	4
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5308	Welding	0	0	0	0	0
	TOTAL	0	0	0	0	0
5400	NATURAL SCIENCE TECHNOLOGIES					
5406	Marine Maintenance Tech.	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	4	0	0	4

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5001	Business Administration	0	1	2	2	5
5005	Office Occupations	0	1	0	1	2
	TOTAL	0	2	2	3	7
5600	ARTS & SCIENCES					
5600	General Program	4	0	4	2	10
	TOTAL	4	0	4	2	10
	TOTAL ASSOCIATE DEGREES AWARDED	4	2	6	5	17

may be underproductive

TABLE 20
Certificates and Degrees Awarded
TANANA VALLEY COMMUNITY COLLEGE

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5005	Office Occupations	0	0	0	0	0
	TOTAL	0	0	0	0	0
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Airframe and Power Plant	0	0	0	0	0
	TOTAL	0	0	0	0	0
5400	NATURAL SCIENCE TECHNOLOGIES					
5404	Food Service Baking Tech.	1	1	0	1	3
	TOTAL	1	1	0	1	3
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5507	Fire Science Technology	1	0	0	0	1
	TOTAL	1	0	0	0	1
	TOTAL CERTIFICATES AWARDED	2	1	0	1	4

Level: Associate

5000	BUSINESS & COMMERCE TECHNOLOGIES					
5004	Business Supervision	0	1	0	1	2
5005	Office Occupations	5	4	4	3	16
	TOTAL	5	5	4	4	18
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5302	Airframe and Power Plant	0	5	3	4	12
5302	Aviation Technology	10	0	5	1	16
5302	Professional Piloting	0	3	0	0	3
5303	Graphic Arts and Design	0	0	2	0	2
5310	Electronics Technology	7	5	4	13	29
5312	Industrial Tech. (deleted)	14	0	0	0	14
5399	Petroleum Technology	0	17	25	28	70
	TOTAL	31	30	39	46	146

may be underproductive

TABLE 20 (continued)
Certificates and Degrees Awarded
TANANA VALLEY COMMUNITY COLLEGE

Level: Associate (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5400	NATURAL SCIENCE TECHNOLOGIES					
5404	Food Service - Baking Tech.	1	4	5	0	10
5405	Family Living - Management	0	0	0	0	0
	TOTAL	1	4	5	0	10
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5503	Early Childhood Development	6	0	2	7	15
5504	Library Technical Assistant	2	8	3	3	16
5507	Fire Science	1	2	1	2	6
5599	Paraprofessional Counseling	0	0	3	4	7
	TOTAL	9	10	9	16	44
5600	ARTS & SCIENCES					
5600	General Program	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL ASSOCIATE DEGREES AWARDED	46	49	57	66	218

may be underproductive

TABLE 21
Degrees Awarded
RURAL EDUCATION

Level: Associate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5400	NATURAL SCIENCE TECHNOLOGIES					
5402	Agriculture	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	0	0	0

may be underproductive

TABLE 22
Certificates and Degrees Awarded
ALASKA PACIFIC UNIVERSITY

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5099	Travel Industry Management	0	0	0	0	0
5099	Women In Management	0	0	0	0	0
	TOTAL	0	0	0	0	0
	TOTAL CERTIFICATES AWARDED	0	0	0	0	0

Level: Associate

5600	ARTS & SCIENCES					
5600	Liberal Arts	0	0	0	1	1
	TOTAL	0	0	0	1	1
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	0	1	1

Level: Bachelor's

4900	INTERDISCIPLINARY STUDIES					
4901	Liberal Arts	0	1	3	14	18
	TOTAL	0	1	3	14	18
	TOTAL BACHELOR'S DEGREES AWARDED	0	1	3	14	18

Level: Master's

0500	BUSINESS AND MANAGEMENT					
0599	Management	0	0	0	0	0
	TOTAL	0	0	0	0	0
0800	EDUCATION					
0801	Education	0	0	4	8	12
	TOTAL	0	0	4	8	12

may be underproductive

TABLE 22 (continued)
Certificates and Degrees Awarded
ALASKA PACIFIC UNIVERSITY

Level: Master's (cont.)

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
4900 4999	INTERDISCIPLINARY STUDIES Liberal Arts	0	3	0	5	8
	TOTAL	0	3	0	5	8
	TOTAL MASTER'S DEGREES AWARDED	0	3	4	13	20

may be underproductive

TABLE 23
Certificates and Degrees Awarded
SHELDON JACKSON COLLEGE

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
Level: Certificate						
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry and Wildlife Technologies*	0	10	0	23	33
	TOTAL	0	10	0	23	33
	TOTAL CERTIFICATES AWARDED	0	10	0	23	33
Level: Associate						
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry and Wildlife Technologies*	4	7	0	0	11
	TOTAL	4	7	0	0	11
5500	PUBLIC SERVICE RELATED TECHNOLOGIES	13	0	0	0	13
5501	Public Service Technologies, Gen.	6	2	0	3	11
5503	Education Technologies					
5505	Police, Law Enforcement, Corrections Technologies	0	2	2	1	5
	TOTAL	19	4	2	4	29
5600	ARTS & SCIENCES					
5600	AA Arts & Science	0	0	20	20	40
	TOTAL	0	0	20	20	40
	TOTAL ASSOCIATE DEGREES AWARDED	23	11	22	24	80
Level: Bachelor's						
0800	EDUCATION					
0802	Elementary Education	7	4	4	2	17
	TOTAL	7	4	4	2	17
	TOTAL BACHELOR'S DEGREES AWARDED	7	4	4	2	17

*Includes Fisheries

may be underproductive

TABLE 24
Certificates Awarded
ALASKA VOCATIONAL-TECHNICAL CENTER

Level: Certificate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5000	BUSINESS & COMMERCE TECHNOLOGIES					
5002	Accounting Technologies	14	5	2	4	25
5005	Secretarial Technologies	26	30	34	29	119
	TOTAL	40	35	36	33	144
5300	MECHANICAL & ENGINEERING TECHNOLOGIES					
5306	Automotive Technologies	14	20	21	20	75
5307	Diesel Technologies	25	23	23	22	93
5308	Welding Technologies	11	34	12	21	78
5315	Mechanical Technologies	32	26	15	21	94
5317	Construction and Building Tech.	36	42	22	18	118
5399	Oil Technologies	36	36	46	39	157
	TOTAL	154	181	139	141	615
5400	NATURAL SCIENCE TECHNOLOGIES					
5403	Forestry and Wildlife Tech.	8	16	32	11	67
5404	Food Services Technologies	25	27	26	33	111
	TOTAL	33	43	58	44	178
	TOTAL CERTIFICATES AWARDED	227	259	233	218	937

may be underproductive

TABLE 25
Degrees Awarded
ALASKA BIBLE COLLEGE

Level: Associate

Program Taxonomy	Program Name	Number of Graduates 78-79	79-80	80-81	81-82	Total
5500	PUBLIC SERVICE RELATED TECHNOLOGIES					
5502	Bible	0	0	5	5	10
	TOTAL	0	0	5	5	10
	TOTAL ASSOCIATE DEGREES AWARDED	0	0	5	5	10

Level: Bachelor's

2300	THEOLOGY					
2301	Theological Professions, General	0	3	0	3	6
	TOTAL	0	3	0	3	6
	TOTAL BACHELOR'S DEGREES AWARDED	0	3	0	3	6

may be underproductive

SECTION V

COMMISSION RECOMMENDATIONS

The following are the Commission's recommendations with regard to programs that have been identified as being possibly underproductive.

I. The University of Alaska should establish a time-line for the review of those programs identified as being possibly underproductive.

II. The University of Alaska, through the appropriate offices, should continue to conduct a thorough review of each identified program with special cognizance of the following questions:

1) Why should this program be offered by this institution?
2) What state needs will be met?
3) What is the minimum cost to operate this program with a basic core of faculty?
4) What standards of quality have been determined for this program?
5) What evidence can be presented to ensure that these standards have been achieved?

III. The University of Alaska should report the results of their reviews to the Governor, the Legislature, and the Commission on Postsecondary Education.

IV. Although Alaska Bible College carries out a special mission to a select clientele, a careful review of the bachelor's degree offering in Theological Professions may serve to increase the number of graduates.

APPENDIX I

DEFINITIONS OF FORMAL AWARDS

APPENDIX I

AWARD	DEFINITION
Certificate	: An award given for successful completion of a program of study of less than one year or at least one year (30 undergraduate semester credit hours).
Associate Degree	: A degree conferred by a college or university for successful completion of a program of study of at least two years (60 undergraduate semester credit hours).
Bachelor's Degree	: A degree conferred by a college or university for successful completion of a program of study of at least four years (130 undergraduate semester credit hours).
Master's Degree	: A degree conferred by a college or university for successful completion of a program of graduate study of at least one year (0 graduate semester credit hours). This degree ranks above the bachelor's degree.
Doctorate Degree	: A degree conferred by a college or university for successful completion of a program of graduate study beyond the master's degree. This degree program has no fixed credit requirement at the University of Alaska, Fairbanks.

APPENDIX II

DEFINITIONS OF PROGRAM AREAS

APPENDIX II

DEFINITIONS OF PROGRAM AREAS

SECTION I. CONVENTIONAL ACADEMIC SUBDIVISIONS OF KNOWLEDGE AND TRAINING

0100	AGRICULTURE AND NATURAL RESOURCES	Includes those subject field designations which characterize degree programs having to do with the production of food and management of natural fiber, plant, forest, and wildlife resources.
0200	ARCHITECTURE AND ENVIRONMENTAL DESIGN	Includes those subject field designations which characterize degree programs having to do with training for a profession in designing buildings, communities, parks, and other manmade aspects of the physio-social environment.
0300	AREA STUDIES	Includes those subject field designations which characterize degree programs having to do with programs designed to study cultures indigenous to specific geographic regions.
0400	BIOLOGICAL SCIENCES	Includes those subject field designations which characterize degree programs having to do with the science of life or living matter in all its forms and phenomena especially with regard to the origin, growth, reproduction, and structure of life forms.
0500	BUSINESS AND MANAGEMENT	Includes those subject field designations which characterize degree programs related to the organization, operation, administration, and control of private and public organizations.
0600	COMMUNICATIONS	Includes those subject field designations which characterize degree programs related to collection, preparation, and presentation of ideas and information intended for popular consumption through mass media.
0700	COMPUTER AND INFORMATION SCIENCES	Includes those subject field designations which characterize degree programs having to do with the design, development, and application of computer capabilities to data storage and manipulation and related computational procedures.

0800	EDUCATION	Includes those subject field designations which characterize degree programs related to administration and control of educational organizations and institutions and subjects related to instruction and services both within and outside of such formal organizations.
0900	ENGINEERING	Includes those subject field designations which characterize degree programs having to do with the practical application of basic scientific knowledge to the design, production, and operation of systems intended to facilitate man's control and use of his natural environment.
1000	FINE AND APPLIED ARTS	Includes those subject field designations which characterize degree programs having to do with the creation and appreciation of the diverse modes of communicating ideas and emotions by means of stylized, visual, and non-visual representations and symbols.
1100	FOREIGN LANGUAGES	Includes those subject field designations which characterize degree programs related to mastery of a language other than English or related to the study of a foreign culture through exploration of the literature of that culture as expressed in the vernacular language.
1200	HEALTH PROFESSIONS	Includes those subject field designations which characterize degree programs having to do with the maintenance and restoration of physical and mental health.
1500	LETTERS	Includes those subject field designations which characterize degree programs having to do with English language and literature and value systems related to ancient and modern cultures.
1700	MATHEMATICS	Includes those subject field designations which characterize degree programs having to do with the science of numbers and space configurations and their operations, measurement, relationships, and abstractions.
1900	PHYSICAL SCIENCES	Includes those subject field designations which characterize degree programs having to do with the basic nature of matter, energy, and associated phenomena.

2000	PSYCHOLOGY	Includes those subject field designations which characterize degree programs having to do with behavioral and mental processes.
2100	PUBLIC AFFAIRS AND SERVICES	Includes those subject field designations which characterize degree programs related to developing and improving competencies in the management and operation of governmental agencies.
2200	SOCIAL SCIENCES	Includes those subject field designations which characterize degree programs having to do with all aspects of the past and present activities, conduct, interactions, and organizations of humans.
2300	THEOLOGY	Includes those subject field designations which characterize degree programs having to do with the practice and application of theological principles and procedures as they apply to the planning, managing and organizing of religious activities.
4900	INTERDISCIPLINARY STUDIES	Includes those subject field designations which characterize degree programs involving more than one major discipline without primary concentration in any one area.
5600	ARTS AND SCIENCE OR GENERAL PROGRAMS	Includes those subject field designations which characterize degree programs involving arts and science or general programs not organized as occupational programs leading to a two-year associate degree.

SECTION II. TECHNOLOGICAL AND OCCUPATIONAL SUBDIVISIONS OF KNOWLEDGE AND TRAINING

5000	BUSINESS AND COMMERCE TECHNOLOGIES	Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for commercial, business, or secretarial occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.
5100	DATA PROCESSING TECHNOLOGIES	Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for data

		processing or related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.
5200	HEALTH SERVICES AND PARAMEDICAL TECHNOLOGIES	Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for health service related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.
5300	MECHANICAL AND ENGINEERING TECHNOLOGIES	Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for mechanical and engineering related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.
5400	NATURAL SCIENCE TECHNOLOGIES	Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for natural science related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.
5500	PUBLIC SERVICE RELATED TECHNOLOGIES	Includes those subject field designations which characterize degree and certificate programs specifically associated with development of skills required for public service related occupations at the semi-professional level. Two years of preparation beyond high school are usually sufficient for entrance into these occupational fields.

APPENDIX III

PROGRAM EVALUATION CRITERIA

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PROGRAM EVALUATION CRITERIA

TENNESSEE

Degree Level	Total Number of Graduates for 4-year period is less than	Average Per Year
Associate	40	10
Bachelor's	40	10
Master's	20	5
Doctorate	12	3

FLORIDA

Degree Level	Total Number of Graduates for 3-year period is less than	Average Per Year
Bachelor's	15 or 30*	5 or 10
Master's	9 or 15*	3 or 5
Doctorate	6	2

*The lower figure represents the expected productivity if the program is the highest level degree program. The higher figure represents the expected productivity if the program is not the highest level degree program.

NEW MEXICO

Degree Level	Total Number of Graduates for 5-year period is less than	Average Per Year
Bachelor's	20	4
Master's	15	3
Doctorate	10	2